

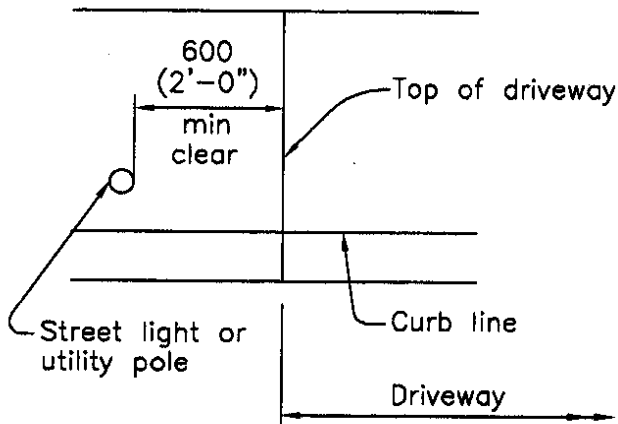
For allowed use of Type 2 and 4, see notes.  
Dimensions are in millimeters, except as noted.

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		
1	06/10/98	DRIVEWAYS	METRIC 105
2	07/10/02		
3	12/23/02		
4		APPROVED BY: <u>Mat a [Signature]</u> CITY ENGINEER R.E. No. <u>40599</u>	SHEET 1 OF 3
		DATE: <u>4/16/03</u> EX. DATE <u>03/31/07</u>	

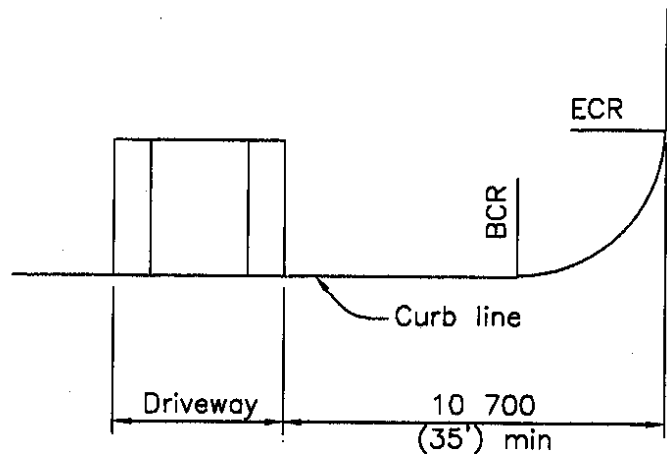
# DRIVEWAY WIDTH (W)

Residential-Single Driveway  
Residential-Double Driveway  
Commercial Driveway

Minimum	Maximum
2400 mm (8')	3000 mm (10')
4800 mm (16')	6000 mm (20')
See Note 8	



DRIVEWAY LOCATION AT STREET LIGHT OR UTILITY POLE



DRIVEWAY LOCATION AT CURB RETURN

TABLE OF X, X' AND Y DIMENSIONS

Curb Face	150 or less (6" or less)	175 (7")	200 (8")	225 (9")	250 (10")	275 (11")	300 (12")
X	900 (3'-0")	975 (3'-3")	1050 (3'-6")	1125 (3'-9")	1200 (4'-0")	1275 (4'-3")	1350 (4'-6")
X' (Type 4)	1500 (5'-0")	1800 (6'-0")	2100 (7'-0")	2400 (8'-0")	2700 (9'-0")	3000 (10'-0")	3300 (11'-0")
* Y min.	1200 (4'-0")	1425 (4'-9")	1700 (5'-8")	1950 (6'-6")	2175 (7'-3")	2400 (8'-0")	2625 (8'-9")

\* Except Type 5

For Type 5 driveway, X shall be increased as needed to produce 8.3% (max.) ramp slope.

Dimensions are in millimeters, except as noted.

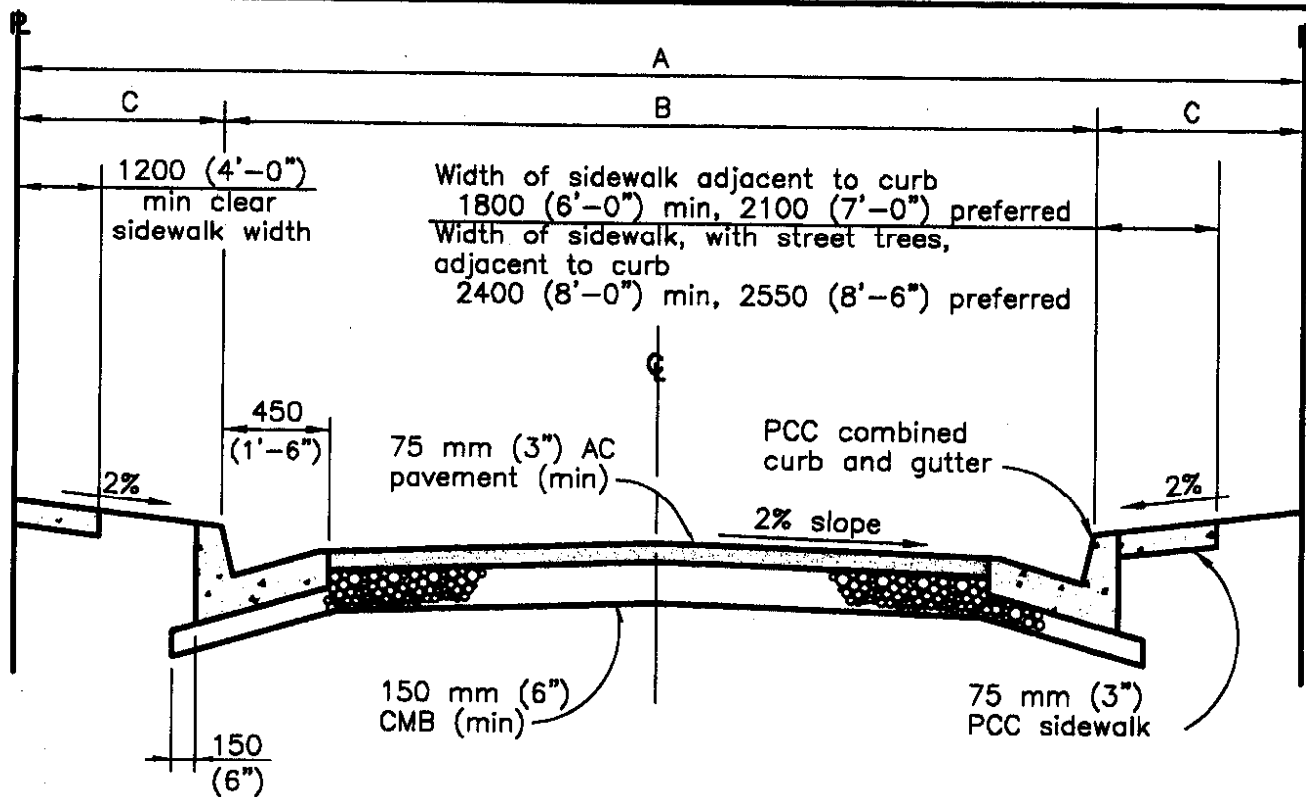
REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		STANDARD PLAN NO.
NO.	DATE			METRIC 105
1	06/10/98	DRIVEWAYS		SHEET 2 OF 3
2	07/10/02			
3	12/23/02			
4		APPROVED BY: <i>[Signature]</i> CITY ENGINEER R.E. No. 40599		DATE: 4/16/03 EX. DATE 03/31/07

NOTES:

1. Residential driveways shall be 100 mm (4") thick portland cement concrete, class 310-A-17 (520-A-2500).
2. Commercial driveways shall be 150 mm (6") thick portland cement concrete, class 310-A-17 (520-A-2500).
3. The location and number of residential driveways shall conform to sub-section 14.08.260 of the Long Beach Municipal Code.
4. Top of adjacent driveways or top of driveway and alley BCR shall be separated by 1200 mm (4') minimum, otherwise a common or continuous driveway shall be used.
5. Weakened plane joints shall be installed at approximately 3000 mm (10') intervals. Where the distance between the sides of the driveway does not exceed 4500 mm (15') an intermediate weakened plane joint will not be required.
6. Type 1 or Type 3 driveways shall be used by preference whenever site conditions permit. Type 5 driveway (depressed back of walk) shall be used by second preference whenever the parkway width is too narrow to allow proper construction of Type 1 or Type 3 driveways. Type 2 or Type 4 driveways shall be used only with permission of the City Engineer and only where alternate ADA access has been provided along the adjacent property frontage.
7. Depressed curb and driveway shall be constructed separately.
8. Commercial driveway widths greater than 7200 mm (24') shall be approved by the City Traffic Engineer.

Dimensions are in millimeters, except as noted.

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		METRIC 105
1	04/01/96	DRIVEWAYS	SHEET 3 OF 3
2	07/10/02		
3	12/23/02		
4	02/27/03		
APPROVED BY: <i>Maia d'Almeida</i>		DATE: <i>4/16/03</i>	
CITY ENGINEER R.E. No. 40599		EX. DATE: 03/31/07	



**TYPICAL CROSS SECTION FOR LOCAL STREET OR SERVICE ROAD**

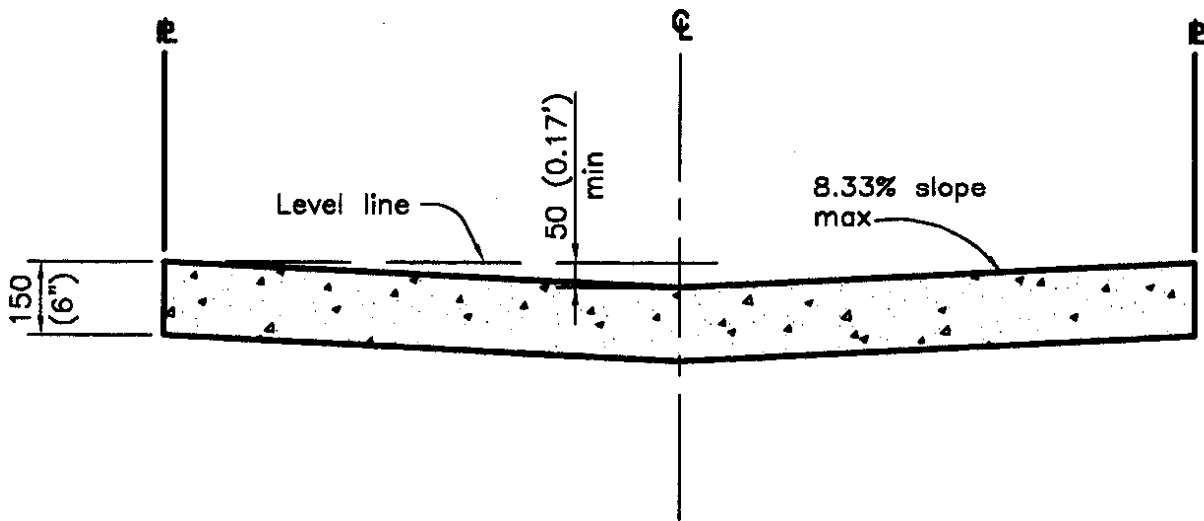
Street Type	Dimensions		
	A	B	C
Local Residential	16.8 m min (56' min)	10.8 m min (36' min)	3.0 m (10')
Collector Residential	19.2 m min (64' min)	12.0 m min (40' min)	3.6 m (12')
Local other than Residential	18.0 m min (60' min)	13.2 m min (44' min)	2.4 m (8')
Service Road—One Way	—	7.2 m (24')	2.4 m (8') ⊙ Residential side
Service Road—Two Way	—	8.4 m (28')	2.4 m (8') ⊙ Residential side

**NOTES:**

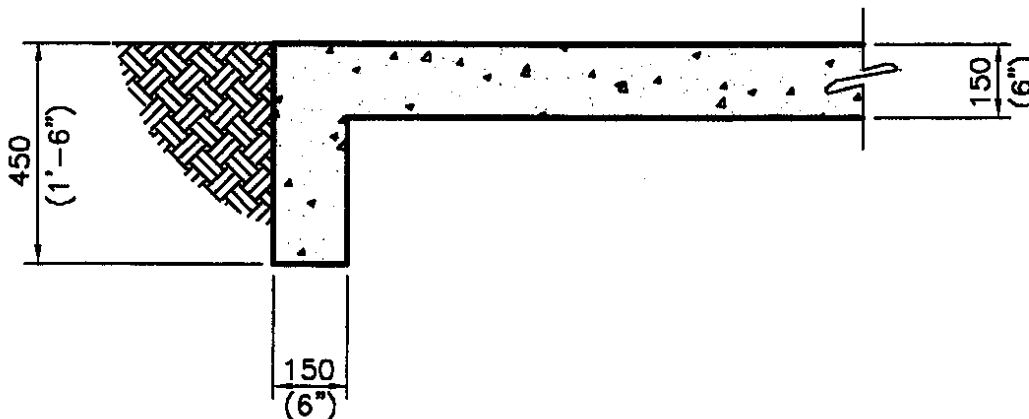
- Asphalt concrete and crushed aggregate base thickness shall be determined by R-Value and Traffic Index using the Caltrans Design Method.
- CMB under curb and gutter shall be equal to the thickness of the pavement section (AC + CMB) minus the gutter thickness or 100 mm (4"), whichever is greater.

Dimensions are in millimeters, except as noted.

<b>REVISIONS</b>		<b>CITY OF LONG BEACH, CALIFORNIA</b> DEPARTMENT OF PUBLIC WORKS	<b>STANDARD PLAN NO.</b>
<b>NO.</b>	<b>DATE</b>		
1	04/02/96	<b>LOCAL STREET, SERVICE ROAD AND ALLEY TYPICAL CROSS SECTIONS</b>	<b>METRIC 107</b>
2	06/11/98		
3	12/23/02		
4			
APPROVED BY: <i>Mark Smith</i>		DATE: <i>1/10/03</i>	<b>SHEET</b> <b>1 OF 2</b>
CITY ENGINEER R.E. No. <i>40599</i>		EX. DATE: <i>03/31/03</i>	



**TYPICAL ALLEY CROSS SECTION**



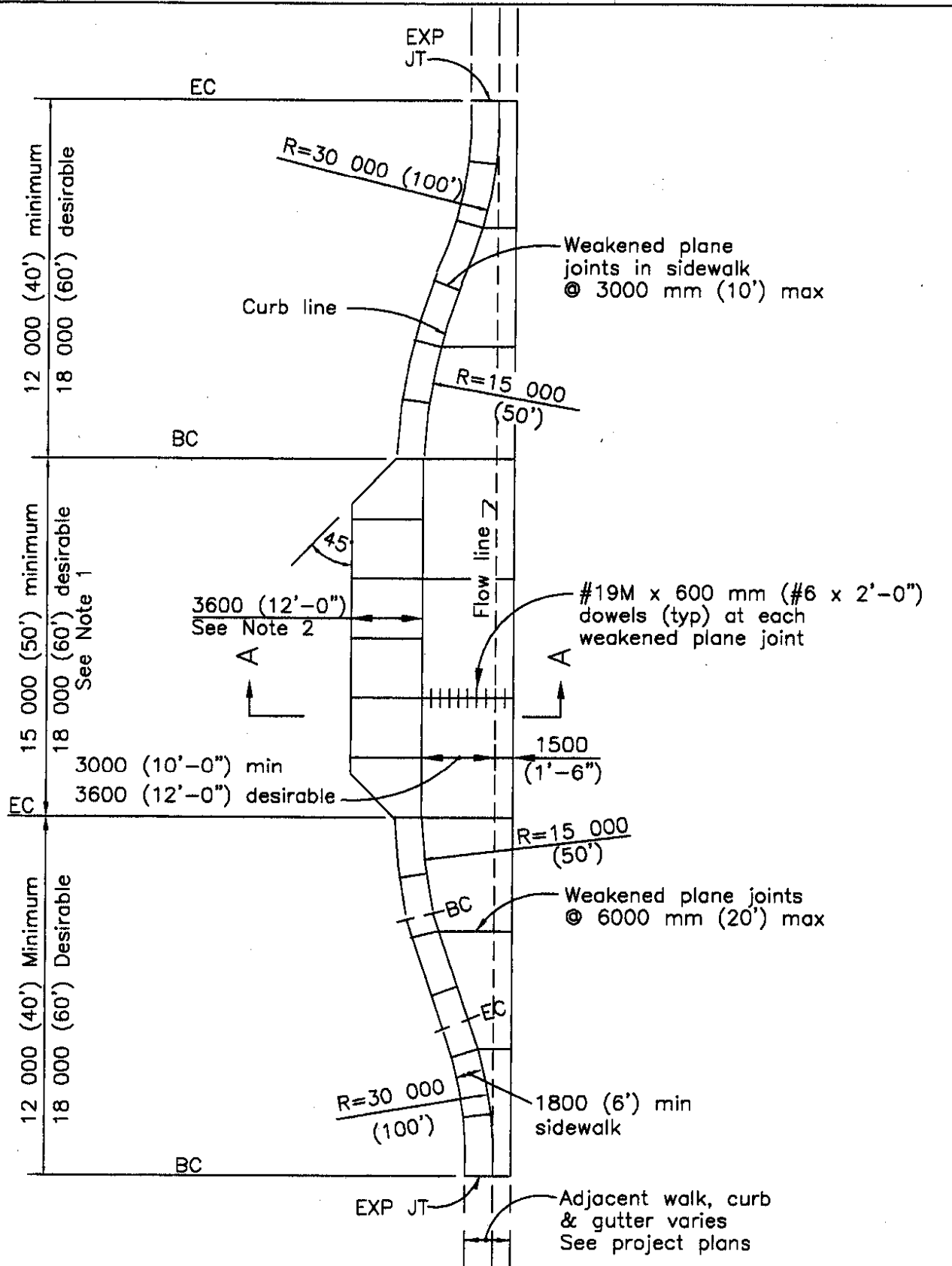
**ALLEY - CUTOFF WALL DETAIL  
LONGITUDINAL SECTION**

**NOTES:**

1. Timber sideforms shall be left in place where alley pavement does not join existing pavement.
2. Sideforms to be left in place shall be 50 x 150 (2 x 6) Redwood or preservative treated Douglas Fir.
3. Alley shall be constructed of portland cement concrete, class 310-A-17 (520-A-2500).
4. Alley cut-off walls shall be constructed at longitudinal ends of alley that do not join AC or PCC pavement.
5. Expansion Joints shall be constructed at property lines where alley abuts PCC or masonry improvements.

Dimensions are in millimeters, except as noted.

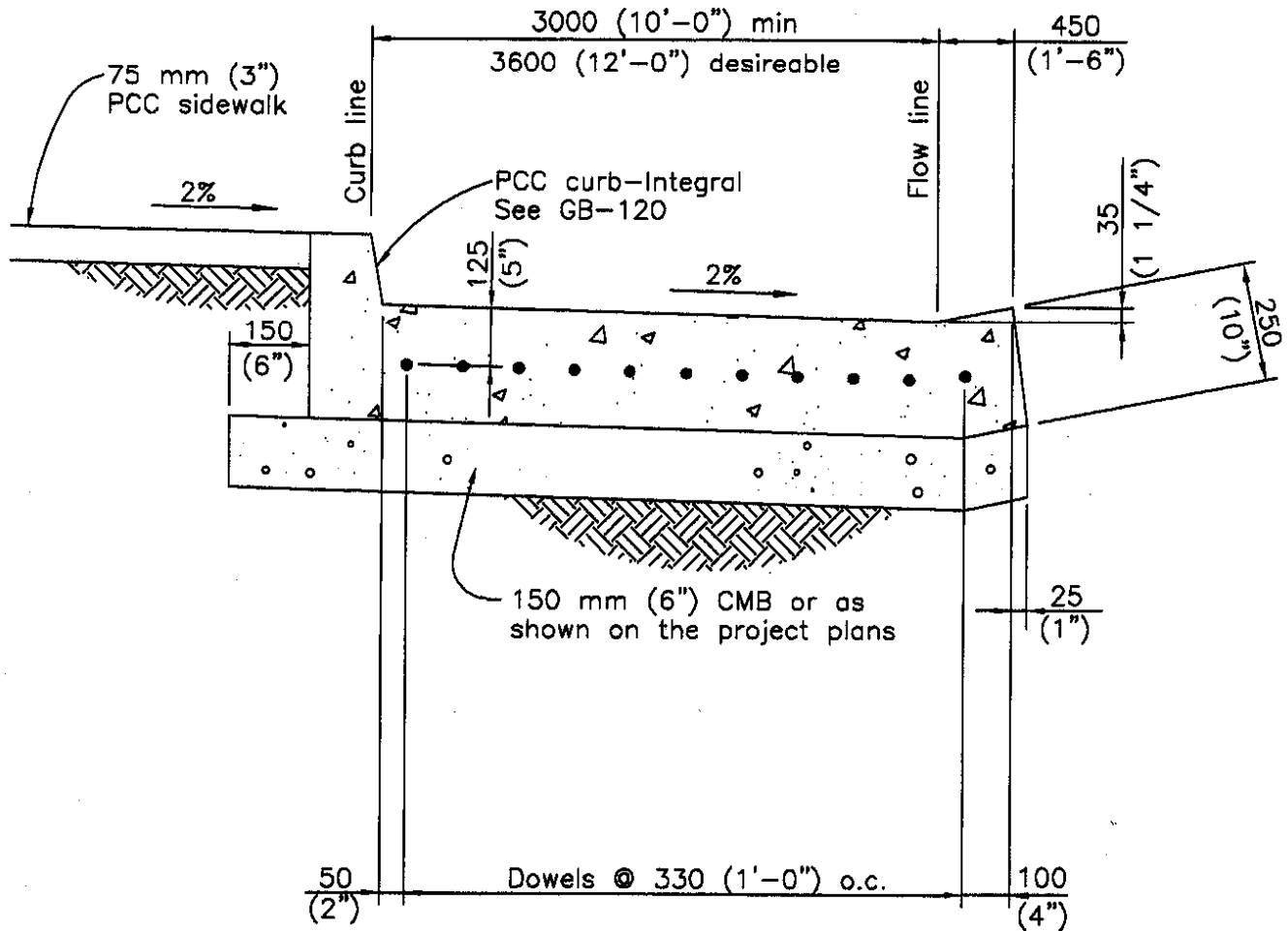
<b>REVISIONS</b>		<b>CITY OF LONG BEACH, CALIFORNIA</b> DEPARTMENT OF PUBLIC WORKS	<b>STANDARD PLAN NO.</b>
<b>NO.</b>	<b>DATE</b>		<b>METRIC 107</b>
1	04/02/96	<b>LOCAL STREET, SERVICE ROAD AND ALLEY TYPICAL CROSS SECTIONS</b>	<b>SHEET 2 OF 2</b>
2	06/11/98		
3	12/23/02		
4			
APPROVED BY: <i>Mark D. [Signature]</i>		DATE: <i>1/10/03</i>	
CITY ENGINEER R.E. NO. 40599		EX. DATE 03/31/03	



PLAN

All dimensions are millimeters, except as noted.

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		STANDARD PLAN NO.
NO.	DATE			
1	06/11/98	BUS PULL-OUT BAY		METRIC 112
2	12/23/02			
3		APPROVED BY: <i>[Signature]</i>		SHEET
4				
		CITY ENGINEER R.E. # 40599	DATE: 4/16/03 EX. DATE 03/31/07	1 OF 2



SECTION A-A

NOTES:

1. Berth length shall be as shown for single bus stop, and 30.0 m (100') for double bus stops. Contact the Long Beach Transit Company for requirements.
2. Landing walk width shall be 3600 mm (12') minimum where shelters will be installed, 1800 mm (6') minimum at other locations.

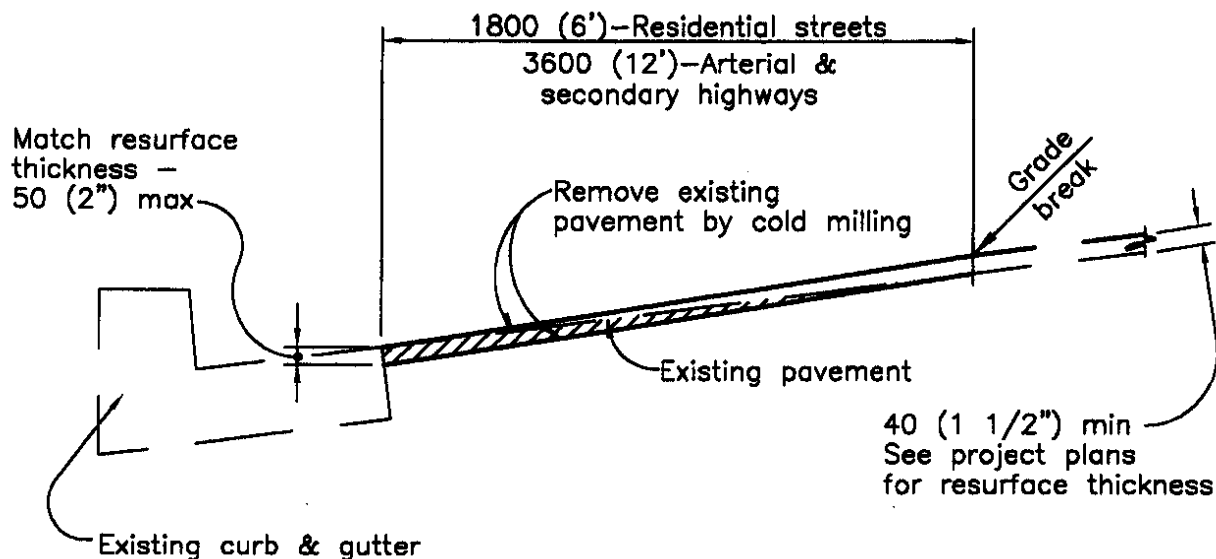
All dimensions are millimeters, except as noted.

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		STANDARD PLAN NO.
NO.	DATE			
1	06/11/98	BUS PULL-OUT BAY		METRIC 112
2	12/23/02			
3		APPROVED BY: <i>[Signature]</i>		SHEET
4				2 OF 2
		CITY ENGINEER P.E. No. 40599	DATE: 4/16/03 EX. DATE: 03/31/07	

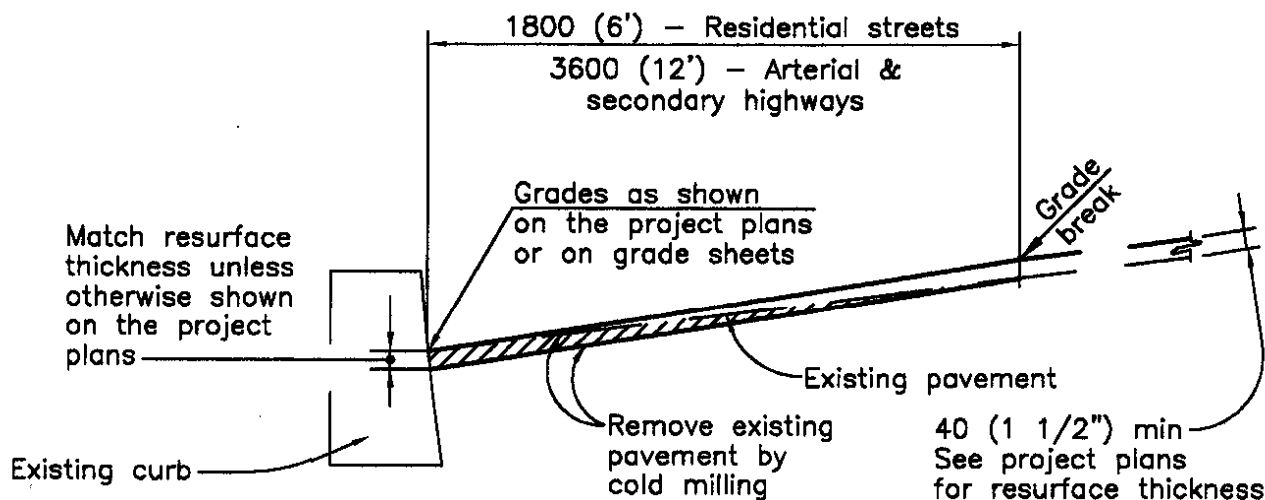


REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		
1	06/15/98	BUS STOP STREET PAD	METRIC 113
2	12/23/02		
3		APPROVED BY: <u><i>[Signature]</i></u> CITY ENGINEER REG. No. 40599	SHEET 1 OF 1
4			
		DATE: <u>4/16/03</u> EX. DATE: <u>03/31/07</u>	





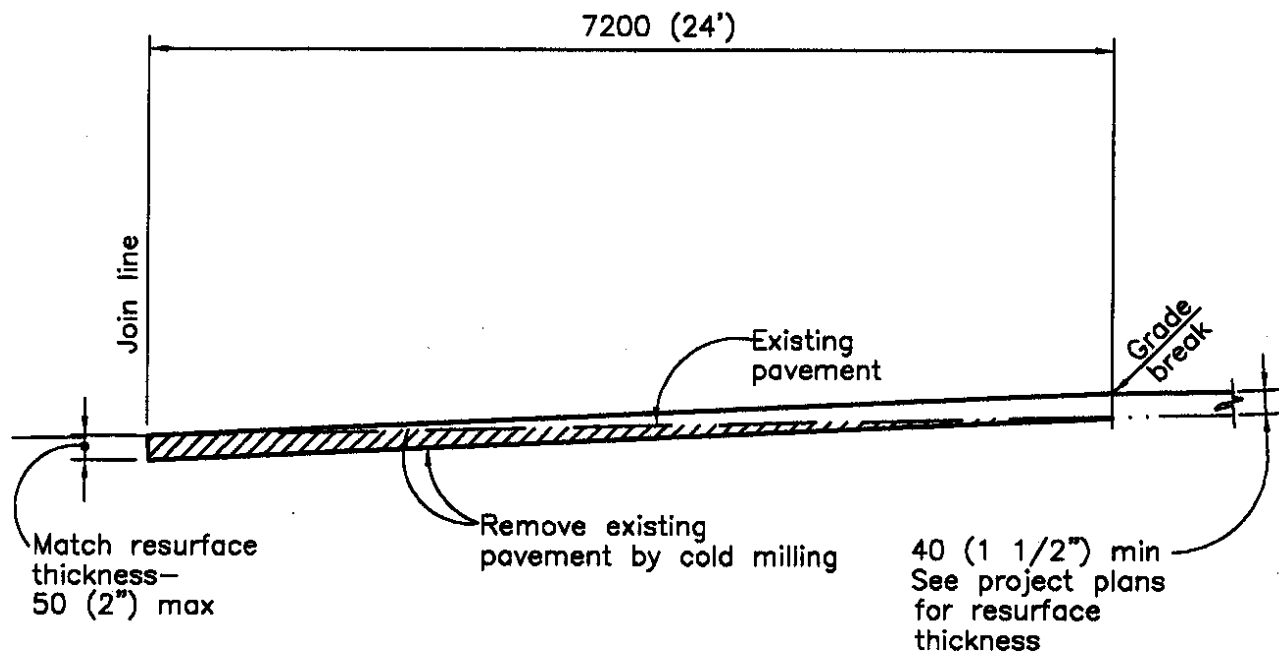
**DETAIL AT CURB & GUTTER**



**DETAIL AT CURB**

Dimensions are in millimeters, except as noted

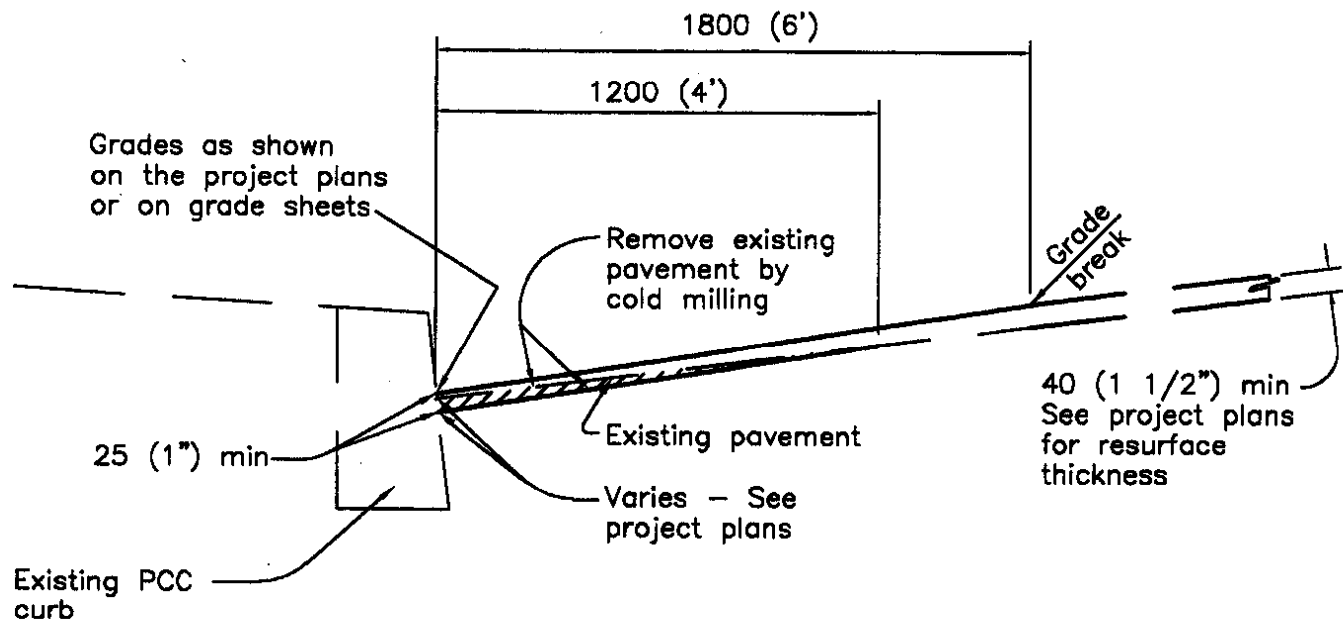
REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		
1	06/15/98	<b>ASPHALT CONCRETE COLD MILLING DETAILS</b>	METRIC <b>114</b>
2	12/23/02		
3			
4			
APPROVED BY: <i>Mark Anttila</i>		DATE: <u>1/10/03</u>	SHEET <b>1 OF 2</b>
CITY ENGINEER R.E. N. 40599		EX. DATE: <u>03/31/03</u>	



**DETAIL AT PROJECT LIMITS AND SIDE STREETS**

Dimensions are in millimeters, except as noted

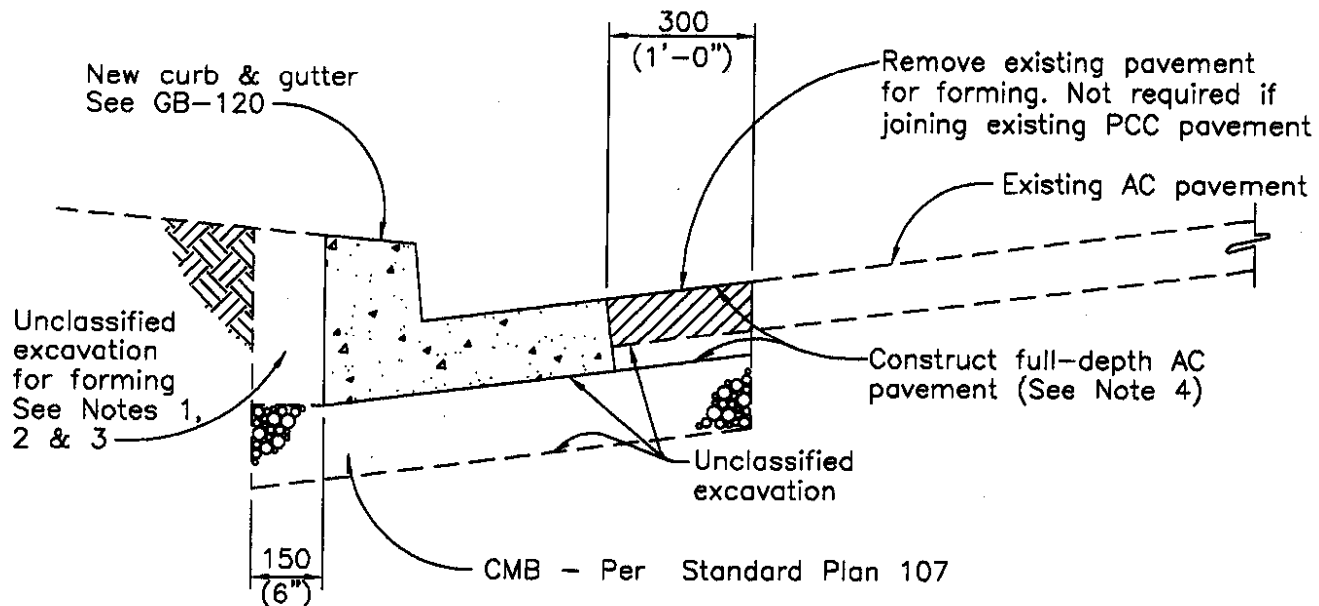
REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		
1	06/15/98	ASPHALT CONCRETE COLD MILLING DETAILS	METRIC 114
2	12/23/02		
3		APPROVED BY: <i>Mark R. [Signature]</i> CITY ENGINEER R.E. No. 40599	SHEET 2 OF 2
4			
		DATE: 1/10/03 EX. DATE 03/31/03	



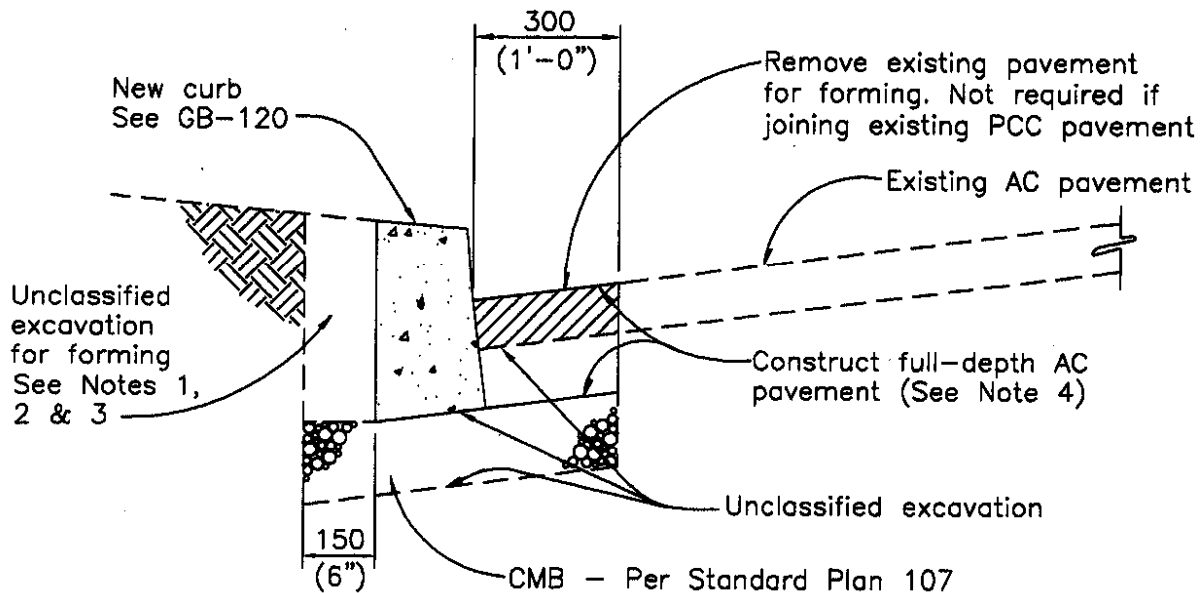
**DETAIL AT CURB**

Dimensions are in millimeters, except as noted.

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		METRIC
1	06/15/98	PCC PAVEMENT COLD MILLING DETAILS	115
2	12/23/02		
3			
4			
APPROVED BY: <i>Mark Chittell</i>		DATE: <i>1/10/03</i>	SHEET
CITY ENGINEER R.E. No. 40599		EX. DATE: 03/31/03	1 OF 1



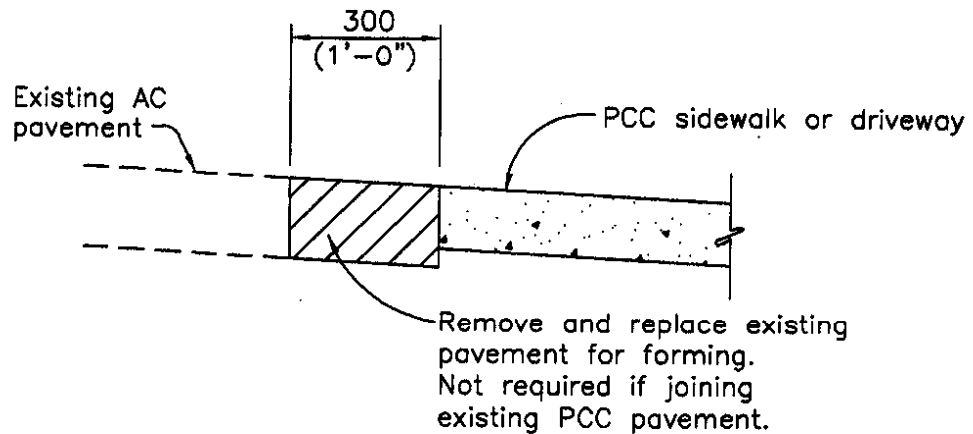
DETAIL AT CURB & GUTTER



DETAIL AT CURB

All dimensions are millimeters, except as noted.

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		
1	11/28/01	CURB & GUTTER, CURB AND SIDEWALK OR DRIVEWAY REPLACEMENT OR CONSTRUCTION	METRIC 116
2	12/23/02		
3			
4			
APPROVED BY: <i>[Signature]</i>		DATE: <i>4/6/03</i>	SHEET 1 OF 2
CITY ENGINEER R.E. No. 40599		EX. DATE: <i>03/31/07</i>	



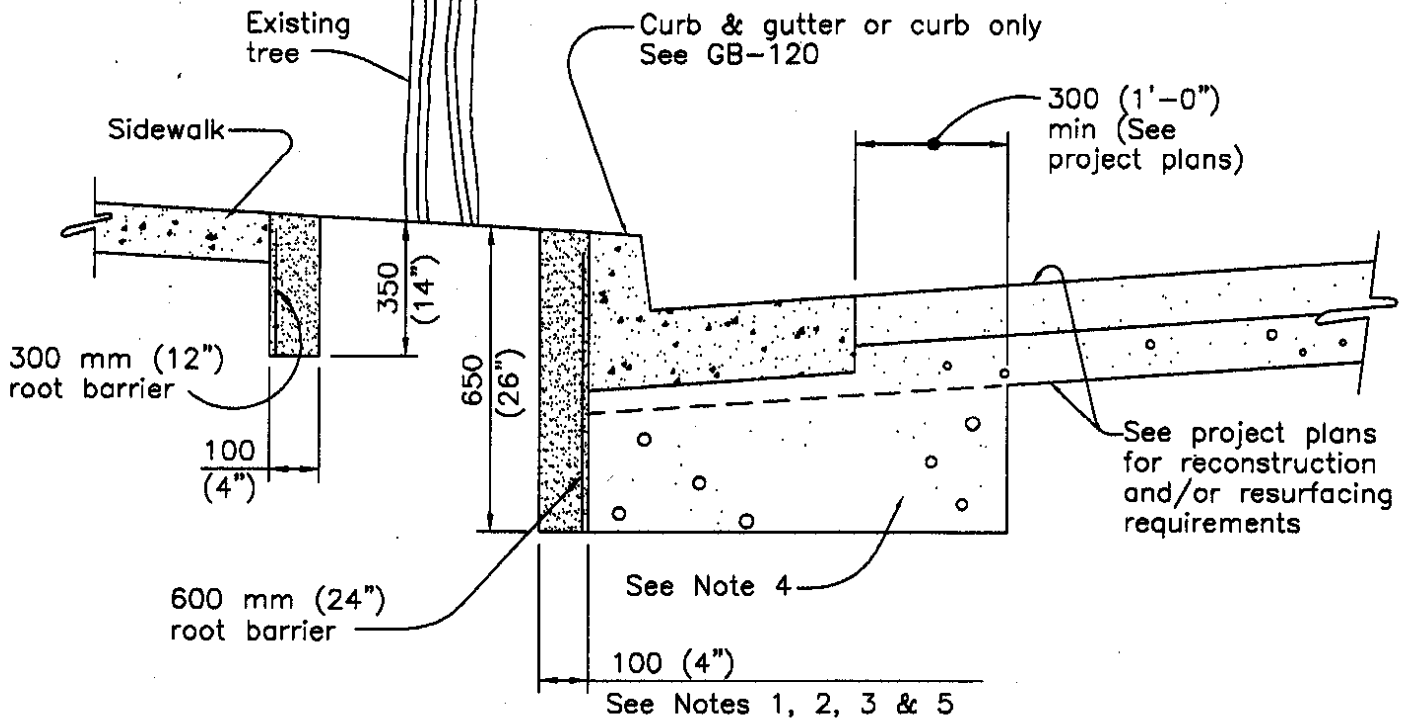
DETAIL AT SIDEWALK OR DRIVEWAY

NOTES:

1. Protect existing sprinkler systems, electrical conduit, water meters, service laterals, and all other underground utilities adjacent to curb and gutter replacement.
2. Backfill excavated area with clean earth from excavation.
3. Reseed to match existing lawns in excavated areas.
4. 50 mm (2") asphalt concrete pavement on Class 60-E-1 (200-E-200) slurry may be used in lieu of full-depth asphalt concrete pavement restoration.

All dimensions are millimeters, except as noted.

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		METRIC 116
1	06/15/98	CURB & GUTTER, CURB AND SIDEWALK OR DRIVEWAY REPLACEMENT OR CONSTRUCTION	SHEET 2 OF 2
2	12/23/02		
3		APPROVED BY: <i>[Signature]</i>	DATE: 4/4/03
4		CITY ENGINEER R. No. 40599	EX. DATE 03/31/07

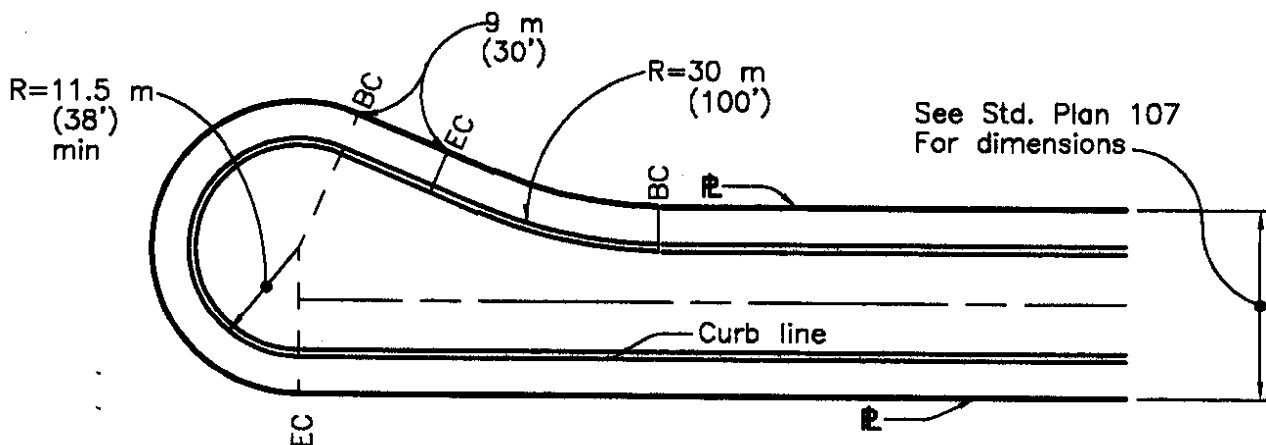
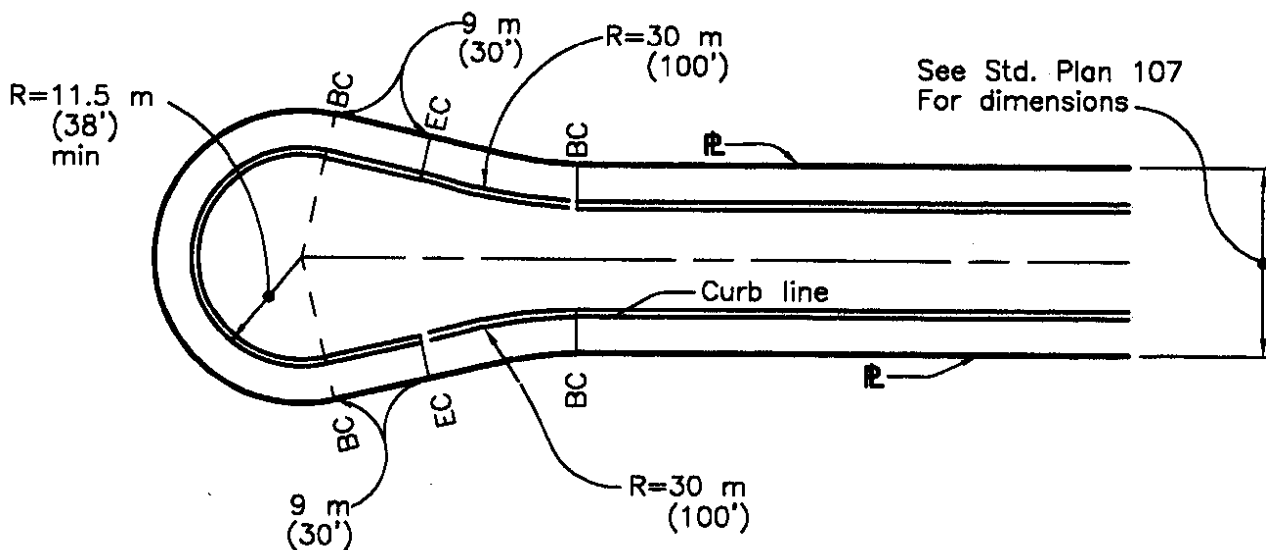


#### NOTES:

1. Root pruning cut shall be 3600 mm (12') long. Install 3600 mm (12') long root barrier and backfill with imported clean earth fill or clean earth from excavation. Root pruning cut and barrier shall be centered on existing tree or at additional locations where directed by the Engineer.
2. Root pruning shall be accomplished by a root cutting method that is not detrimental to the tree. The method used shall be approved by the Engineer.
3. When required, trees shall be pruned to balance root pruning and root removal. Tree pruning shall be done prior to root pruning and root removal. (See project plans and/or specifications)
4. Remove all roots within the limits shown at existing tree locations where root pruning is indicated, or where directed by the Engineer. The excavated area shall be filled with CMB (3600 mm (12') long, per Note 1).
5. Root barrier shall be fabricated from a high density and high impact plastic such as polyvinyl chloride, ABS or polyethylene and shall have a minimum thickness of 1.5 mm (0.06"). The plastic shall have 15-20 mm (1/2"-3/4") high raised vertical ribs on the inner surface spaced not more than 150 to 200 mm (6" - 8") apart.
6. Root barrier shall be installed with the raised ribs placed toward the tree.
7. Protect existing sprinkler systems, electrical conduit, water meters, and service laterals, and all other underground utilities adjacent to curb & gutter or curb replacement, and root pruning.
8. Resod to match existing lawns in excavated areas.
9. 300 and 600 mm (12" and 24") root barrier shall not be constructed at same tree location unless shown on the project plans. See project plans for locations.

Dimensions are in millimeters, except as noted.

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		
1	04/02/96	CURB, GUTTER AND SIDEWALK REPLACEMENT OR CON- STRUCTION WITH ROOT BARRIER AT EXISTING TREE LOCATIONS	METRIC 117
2	06/15/98		
3	12/23/02		
4			
APPROVED BY: <i>[Signature]</i>		DATE: <i>4/16/03</i>	SHEET 1 OF 1
CITY ENGINEER R. No. 40599		EX. DATE: 03/31/07	

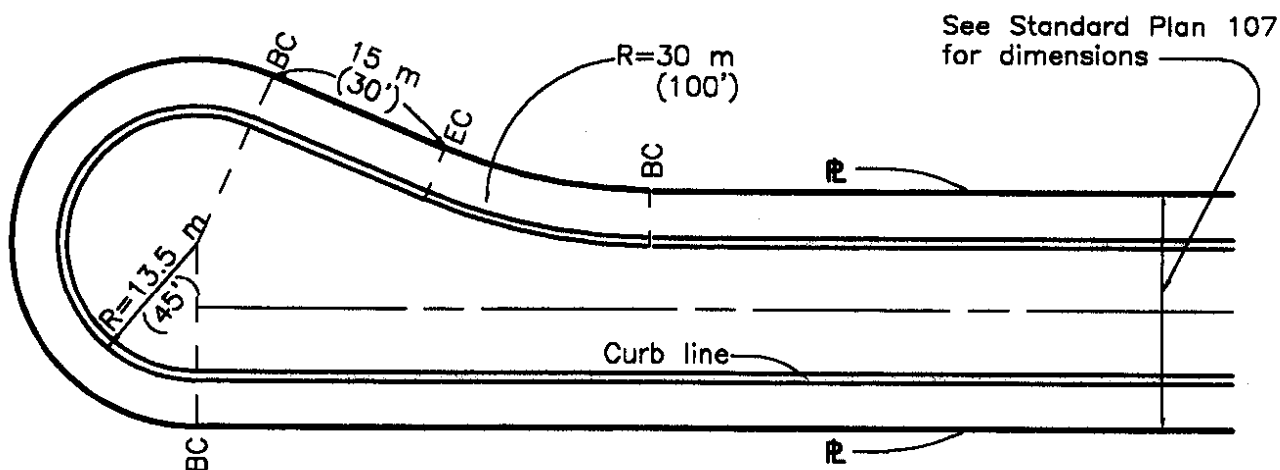
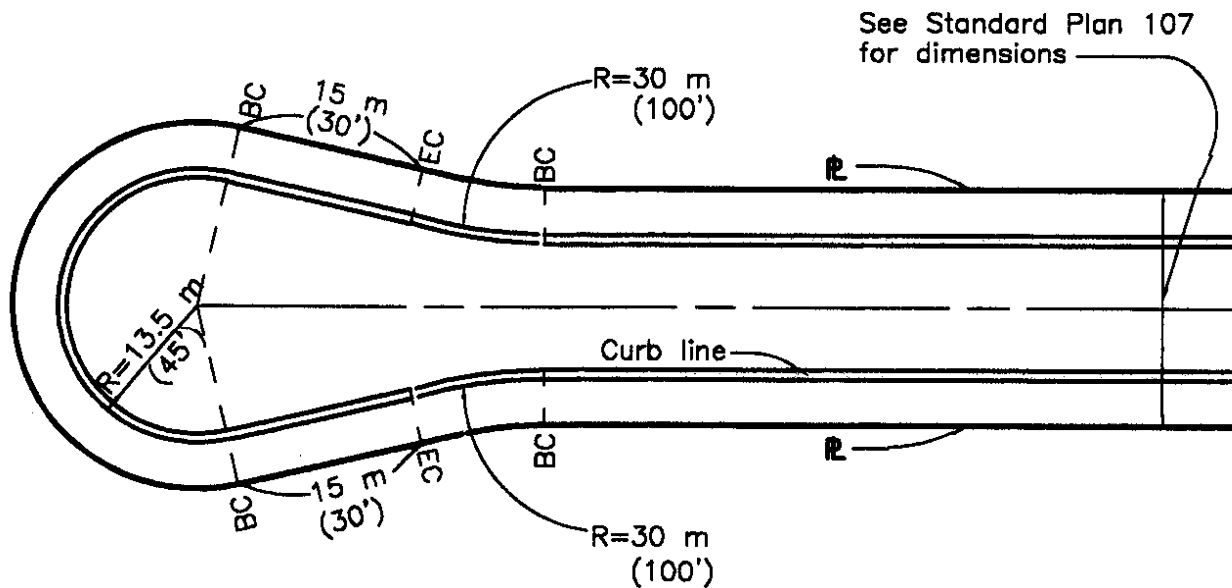


**NOTE:**

1. Partially offset turnarounds are acceptable.

Dimensions are in millimeters, except as noted

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		STANDARD PLAN NO.
NO.	DATE			
1	11/28/01	TURNAROUND FOR RESIDENTIAL CUL-DE-SAC STREETS		METRIC 118
2	12/23/02			
3		APPROVED BY: <i>Mark R. Toffel</i> CITY ENGINEER R.E. No. 40599		SHEET 1 OF 1
4				
		DATE: 1/10/03 EX. DATE: 03/31/03		



**NOTE:**

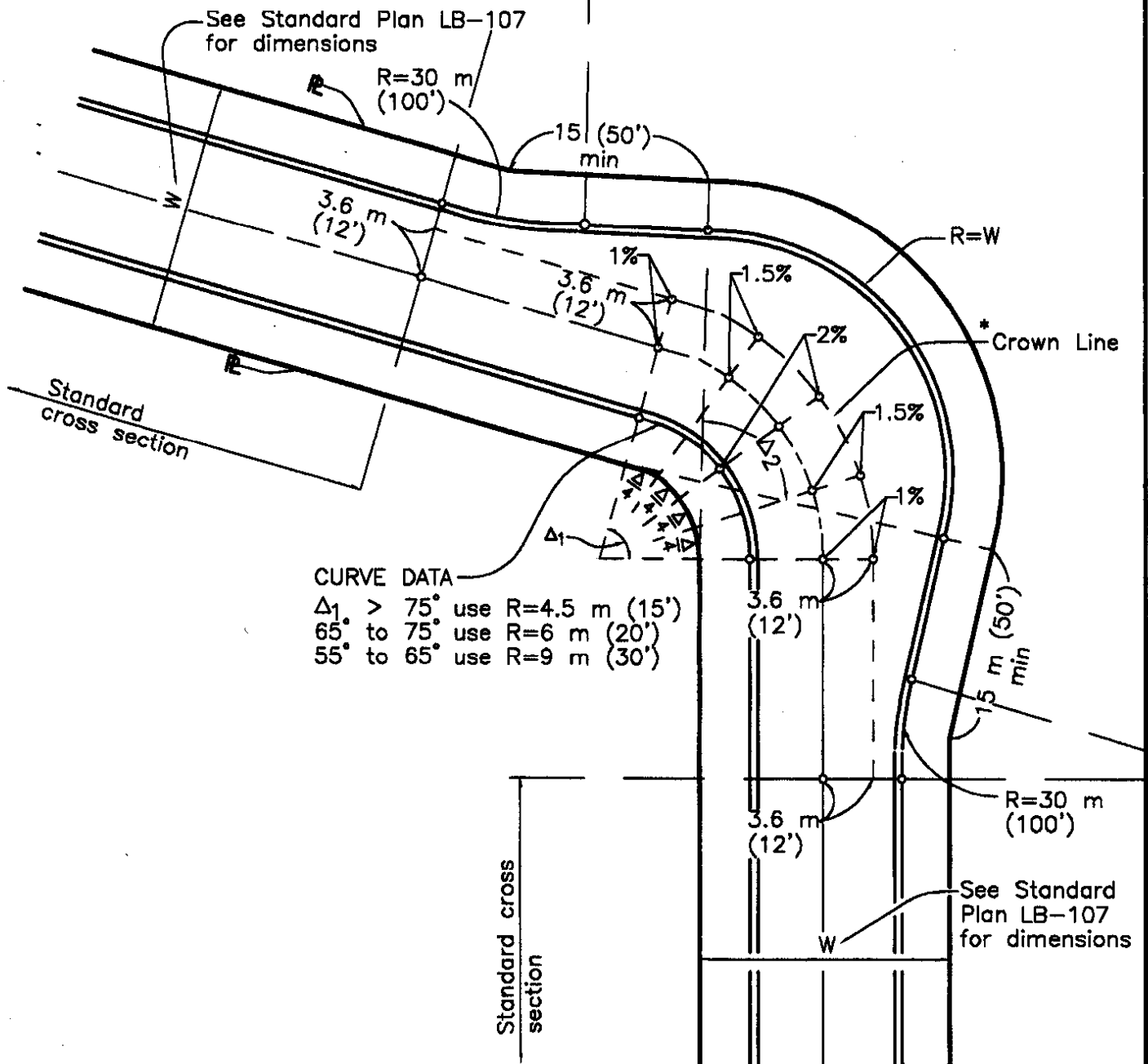
1. Partially offset turnarounds are acceptable.

Dimensions are in millimeters, except as noted

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		
1	04/03/96	TURNAROUND FOR LOCAL OTHER THAN RESIDENTIAL CUL-DE-SAC STREETS	METRIC 119
2	12/23/02		
3			
4			
APPROVED BY: <i>Mark Anttila</i>		DATE: 1/10/03	SHEET 1 OF 1
CITY ENGINEER R.E. No. 40589		EX. DATE 03/31/03	



\* Crown line can be moved to within 2 m (7') of outside curb

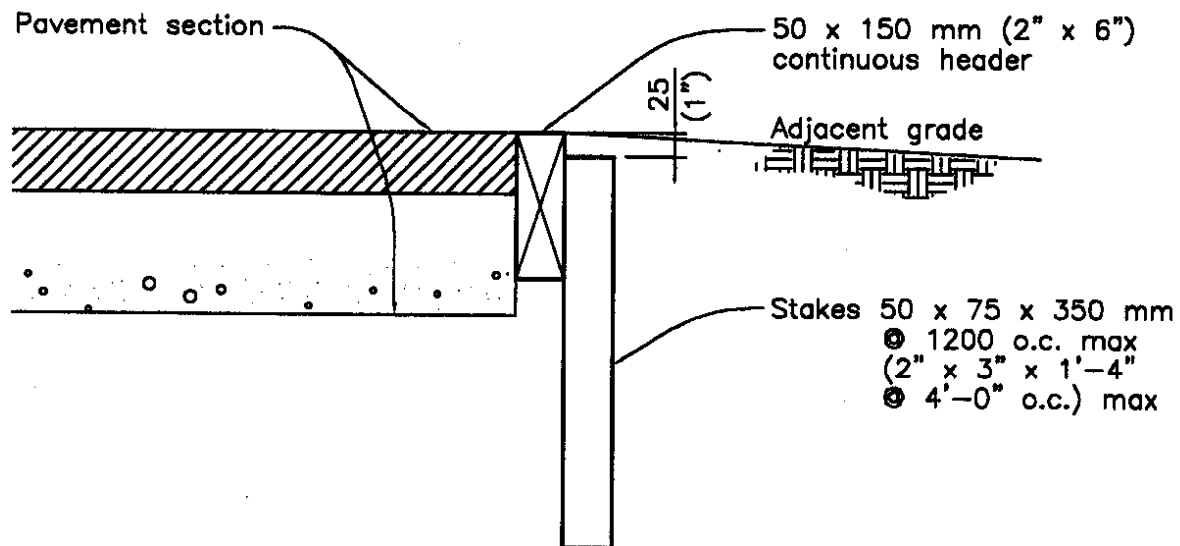


**NOTES:**

1. Elevations are required where circled.
2. Limits of slope, crown line to outside gutter: maximum = 4%; minimum = 1%.

Dimensions are in millimeters, except as noted

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		STANDARD PLAN NO.
NO.	DATE			
1	04/04/96	SUPERELEVATED KNUCKLE		METRIC 120
2	12/23/02			
3		APPROVED BY: <i>Mark Christoffel</i> CITY ENGINEER R.E. NO. 40599		SHEET 1 OF 1
4				
		DATE: 1/10/03 EX. DATE: 03/31/03		



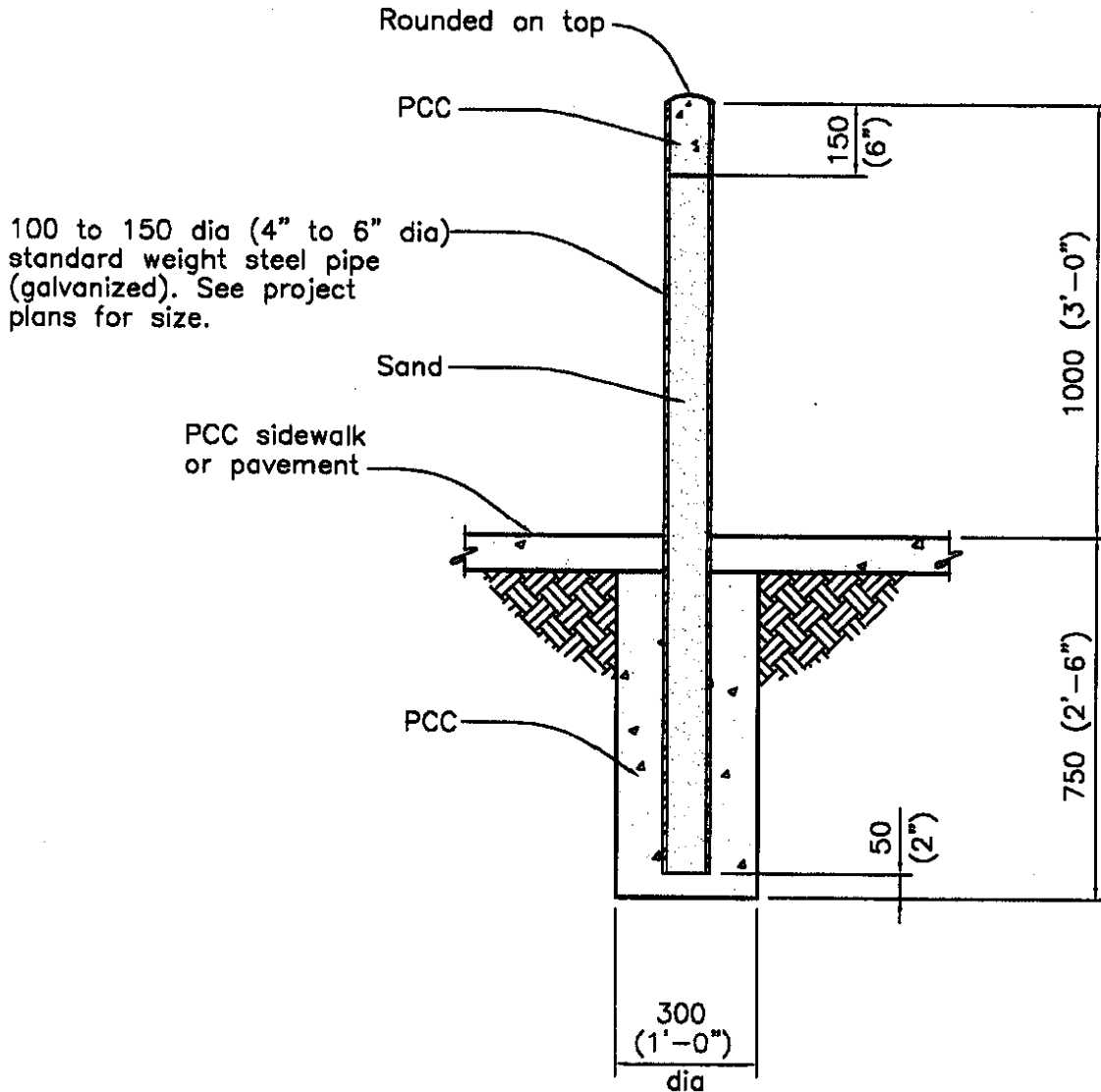
**TYPICAL SECTION**

**NOTES:**

1. Install at all locations where AC pavement is constructed adjacent to dirt grade. Leave in-place.
2. Splice boards shall be installed on the grade side and shall be minimum 50 x 150 x 1000 mm (2" x 6" x 3'-0").
3. Headers, splice boards and stakes shall be redwood or preservative treated Douglas Fir.

Dimensions are in millimeters, except as noted

<b>REVISIONS</b>		<b>CITY OF LONG BEACH, CALIFORNIA</b>		<b>STANDARD PLAN NO.</b>
<b>NO.</b>	<b>DATE</b>	<b>DEPARTMENT OF PUBLIC WORKS</b>		
1	04/04/96	<b>HEADER BOARD FOR ASPHALT CONCRETE PAVEMENT</b>		<b>METRIC 121</b>
2	12/23/02			
3				
4				
<b>APPROVED BY:</b> <i>Mark Anttila</i> <small>CITY ENGINEER R.E. No. 40599</small>		<b>DATE:</b> 1/10/03 <b>EX. DATE:</b> 03/31/03		<b>SHEET</b> 1 OF 1



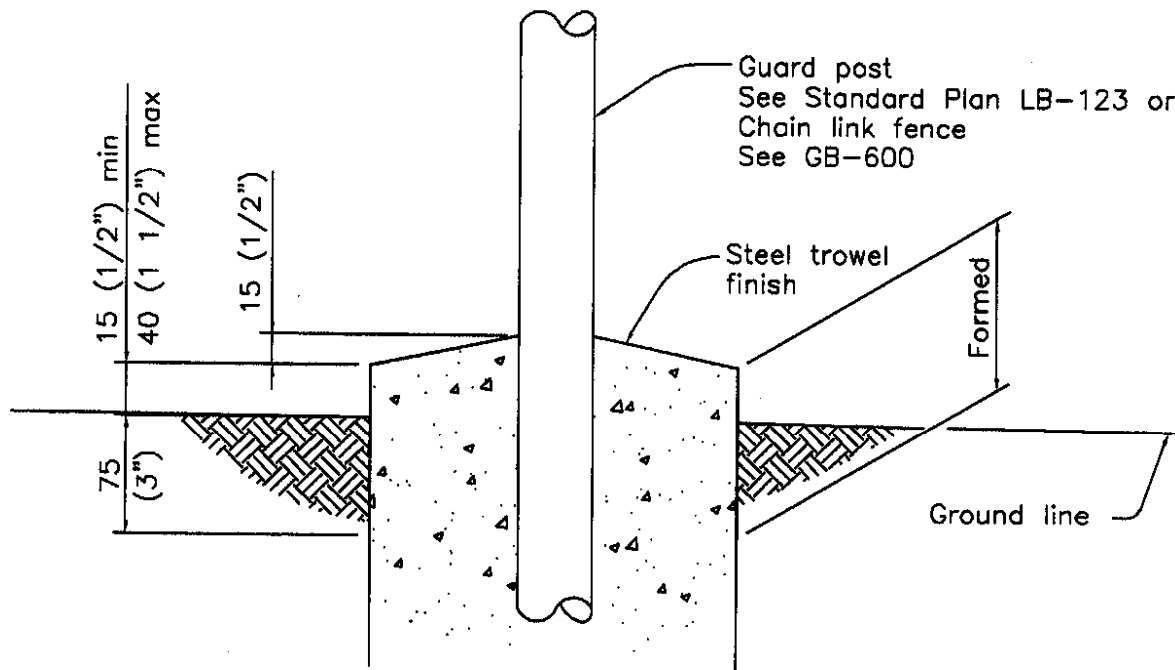
**TYPICAL SECTION**

**NOTE:**

Pipe size refers to nominal diameter.

Dimensions are in millimeters, except as noted

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		
1	04/04/96	GUARD PIPE DETAIL	METRIC 123
2	12/23/02		
3			
4			
APPROVED BY: <i>Mark Cliffe</i>		DATE: 1/10/03	SHEET
CITY ENGINEER R.E. No. 40589		EX. DATE 03/31/03	1 OF 1



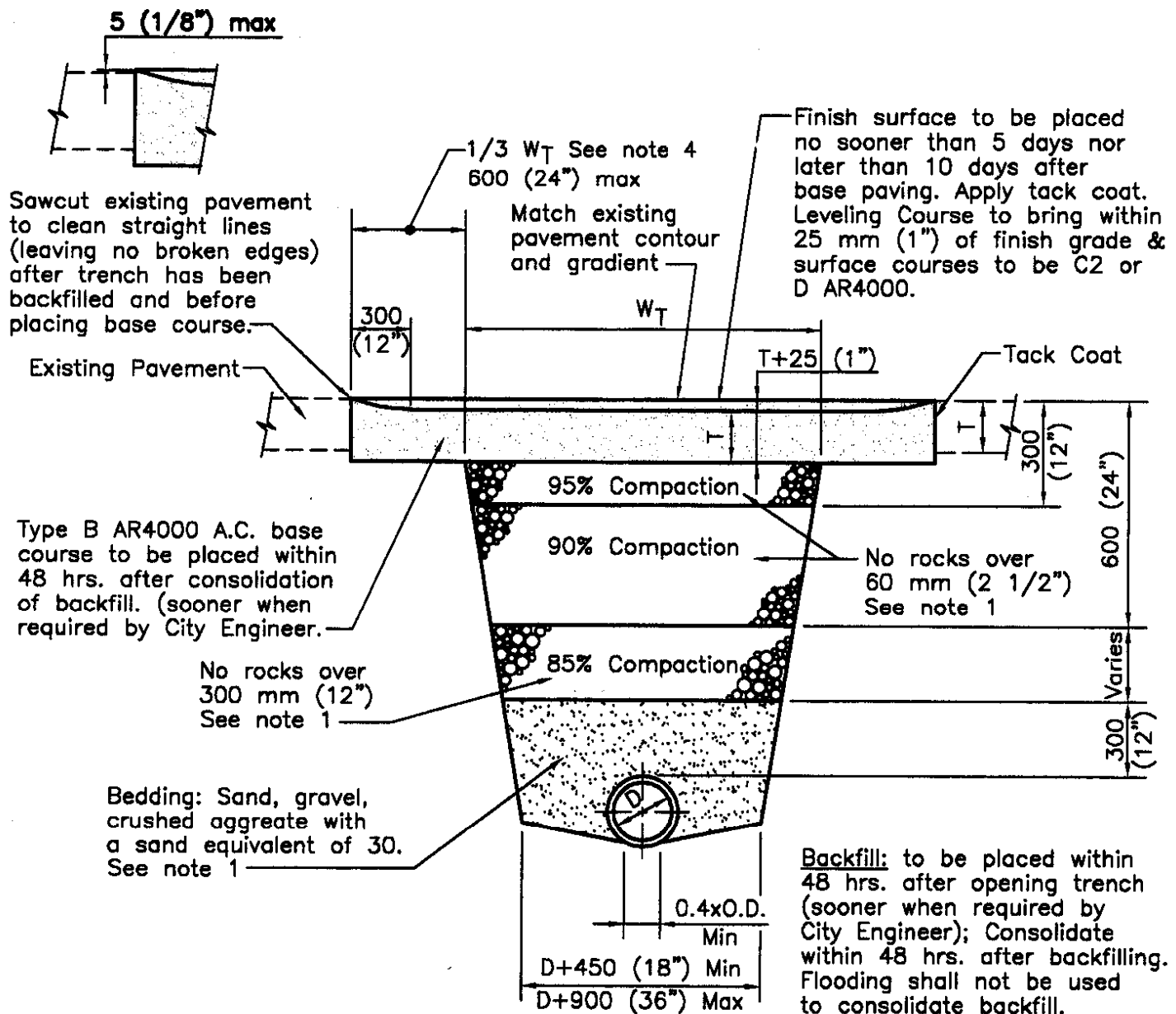
FORMED BASE  
(when specified)

Dimensions are in millimeters, except as noted

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		
1	04/04/96	FORMED FENCE OR GUARD PIPE BASE	METRIC 125
2	12/23/02		
3			
4			
APPROVED BY: <i>[Signature]</i>		DATE: <i>4/16/03</i>	SHEET 1 OF 1
CITY ENGINEER R.E. No. 40599		EX. DATE: 03/31/07	



REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		
1	04/05/96	WATER GATE BOX RECONSTRUCTION AND ADJUSTMENT	METRIC 126
2	12/23/02		
3			
4			
APPROVED BY: <u>Mal Chittell</u>		DATE: <u>1/10/03</u>	SHEET 1 OF 1
CITY ENGINEER R.E. NO. <u>40599</u>		EX. DATE <u>03/31/03</u>	



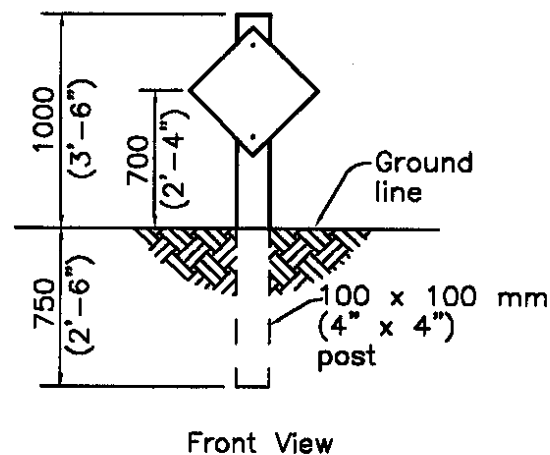
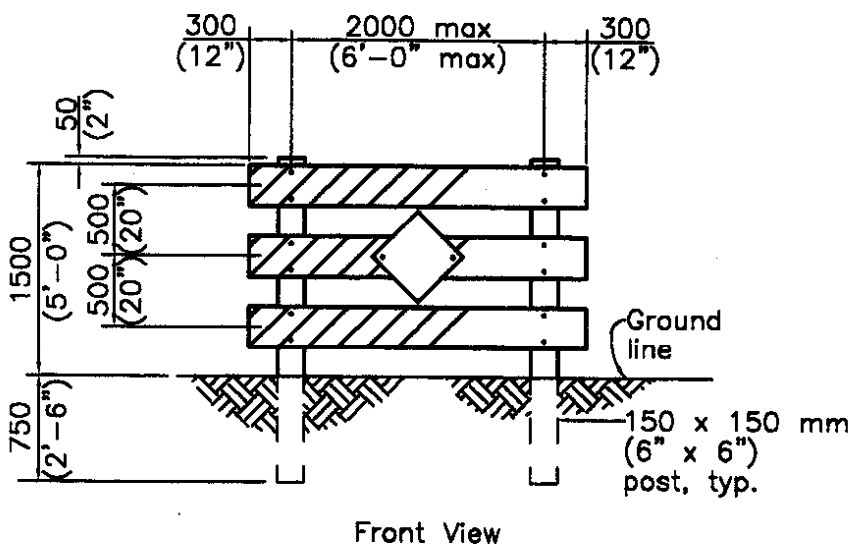
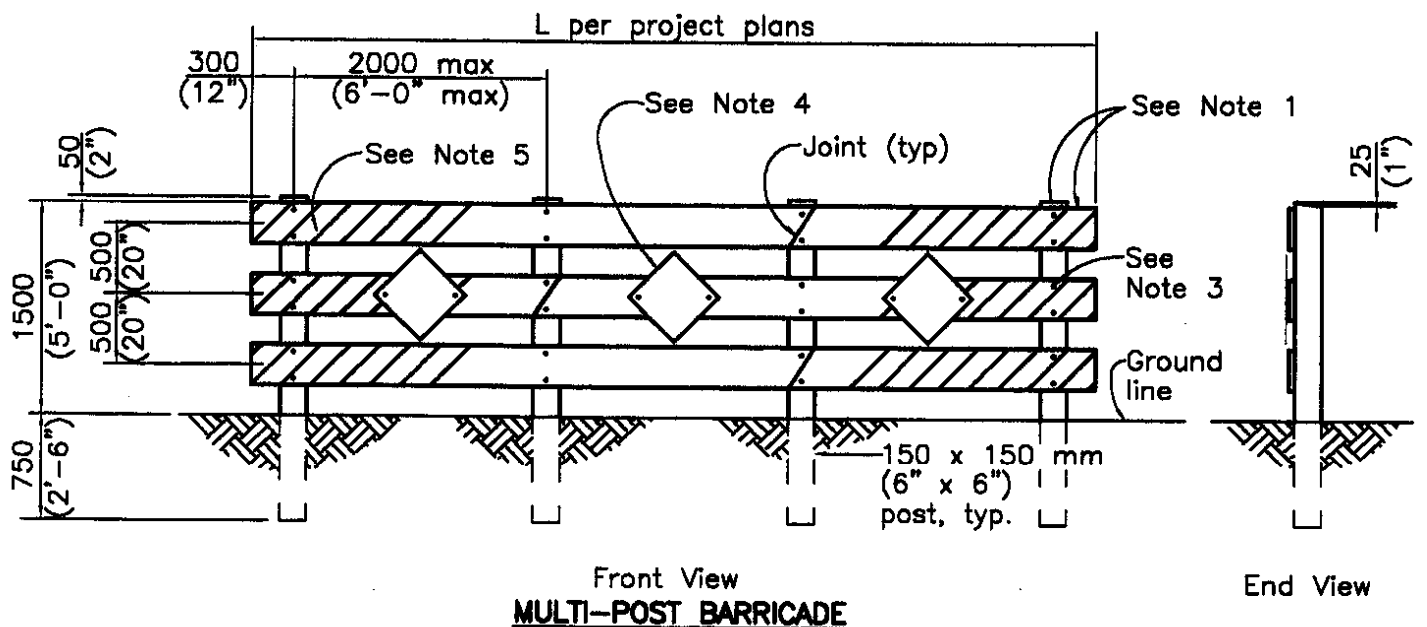
### DETAIL FOR TRENCHING, BACKFILL & A.C. PAVEMENT REPAIR

#### NOTES:

1. Backfill for trenches with  $W = 900$  mm (36") or less shall be cement slurry, class 120-E-1.4 (200-E-200) unless otherwise approved by the City Engineer.
2. Unless otherwise instructed by the City Engineer, trench patch shall not be crowned at center.
3. Temporary asphalt concrete shall be 100 mm (4") minimum thickness. Compaction and surface finish shall equal to that required for permanent asphalt concrete pavement.
4. Outer dimension does not apply to single excavations smaller than 1.5 x 1.5 m (5'x5').
5. Replace obliterated striping within 7 days of permanent paving.

Dimensions are in millimeters, except as noted

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		
1	04/04/96	TRENCH REQUIREMENTS IN STREETS R/W	METRIC 127
2	11/24/97		
3	12/23/02		
4			
APPROVED BY: <i>Max Chaffin</i>		DATE: 1/10/03	SHEET 1 OF 1
CITY ENGINEER R.E. No. 40589		EX. DATE 03/31/03	

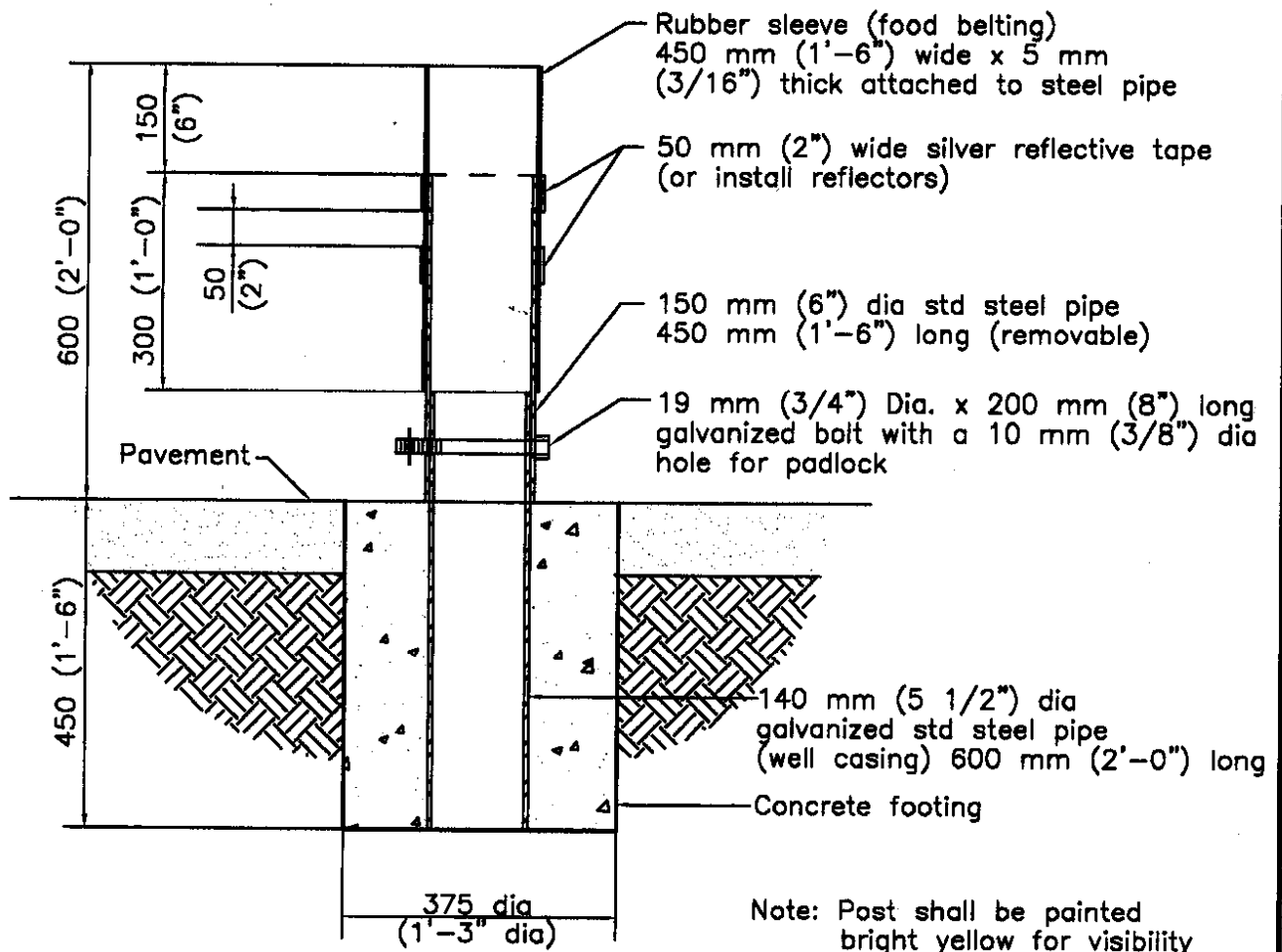


**NOTES:**

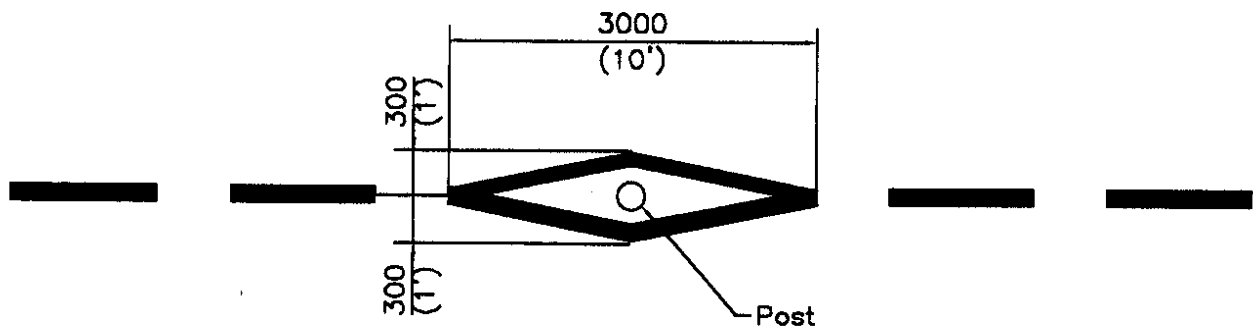
1. Posts shall be structural grade redwood or preservative treated Douglas Fir, surfaced four sides; cross pieces shall be 50 x 300 mm (2" x 12") select grade Douglas Fir, surfaced four sides.
2. All exposed portions of barricades shall be painted with two coats of white exterior enamel over prime coat.
3. Connections shall be made with 10 x 150 mm (3/8" x 6") galvanized lag screws with one (1) washer each. Reflector sign fasteners shall be 10 x 40 mm (3/8" x 1 1/2") galvanized lag screws.
4. Reflector signs shall be Caltrans Type N-2 for use on dead end streets and Type N-1 for all other conditions.
5. Markings for barricade rails shall be reflectorized alternate orange and white stripes in accordance with the "Work Area Traffic Control Handbook."

Dimensions are in millimeters, except as noted

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		STANDARD PLAN NO.
NO.	DATE			
1	04/04/96	<b>PERMANENT BARRICADE</b>		<b>METRIC 128</b>
2	12/23/02			
3		APPROVED BY: <i>Mark Anttila</i> CITY ENGINEER R.E. No. 70599		SHEET 1 OF 1
4				
		DATE: 1/10/03 EX. DATE: 03/31/03		



### SECTION





### PLAN

Dimensions are in millimeters, except as noted.

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		
1	04/05/96	BICYCLE PATH BARRIER POST	METRIC 131
2	11/24/97		
3	12/23/02		
4			
APPROVED BY: <u>Mal Chittell</u>		DATE: <u>1/10/03</u>	SHEET 1 OF 1
CITY ENGINEER R.E. No. <u>40599</u>		EX. DATE <u>03/31/03</u>	

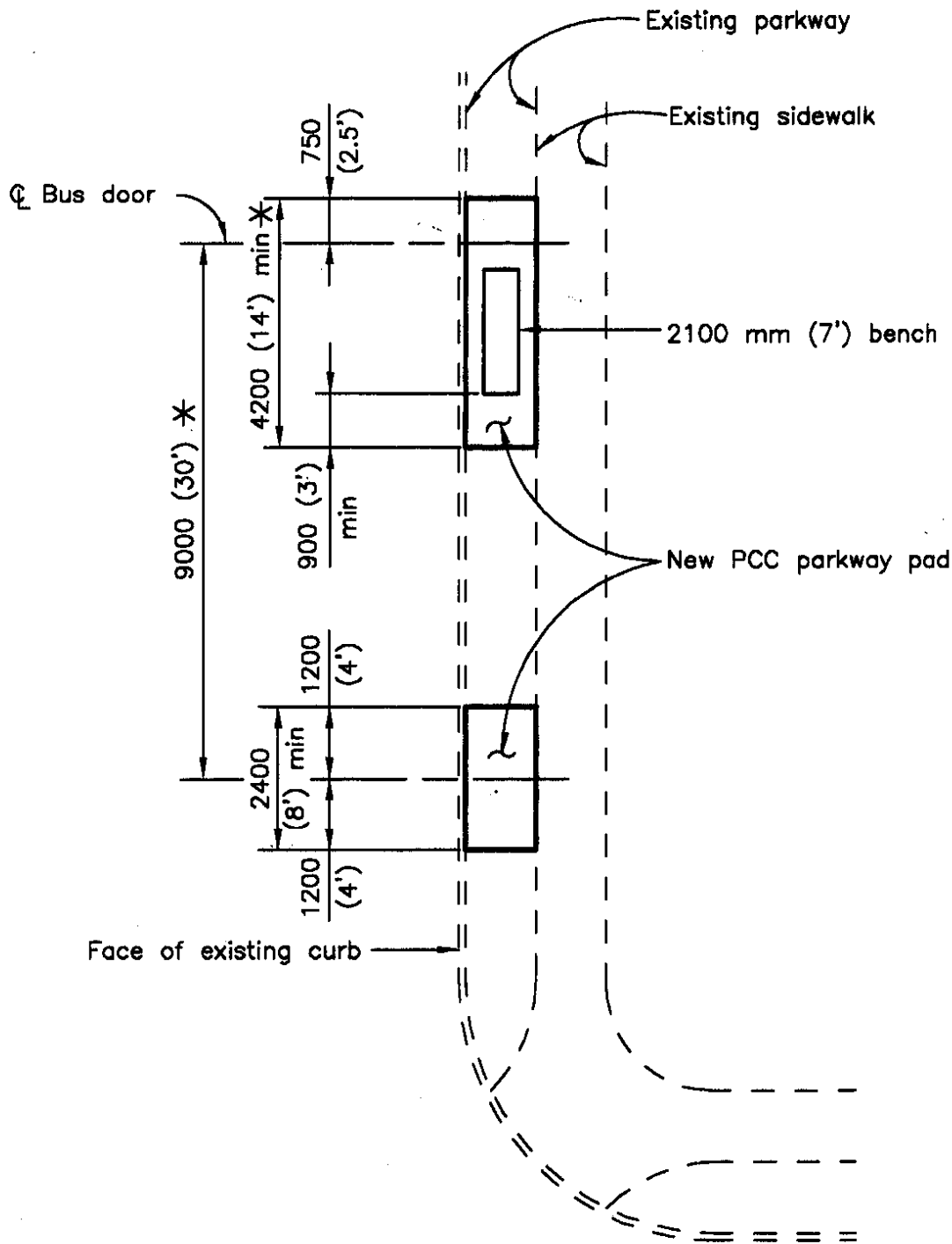


# DRAFTING SYMBOLS

BARRICADE -----	
BENCH MARK -----	■ BM
EXISTING GRADE -----	(XX.XX)
FENCE -----	— x — x —
FIRE HYDRANT -----	○
FLOW DIRECTION -----	~>
GUY -----	•
JOIN EXISTING IMPROVEMENTS -----	⋈
MANHOLE -----	<div> <div>⊙<sup>S</sup></div> <div> -S -SD -E -T </div> <div> SEWER STORM DRAIN EDISON TELEPHONE </div> </div>
METER -----	<div> <div>⊠ WM</div> <div> -WM -GM </div> <div> WATER METER GAS METER </div> </div>
MONUMENT -----	⊙ MON#
POLE -----	○
POST OR IRON PIPE -----	•
PULL BOX -----	□ PB
SIGN -----	⋈
SIGNAL CONTROL BOX -----	⊠
SPRINKLER HEAD -----	— ∇ —
STREET LIGHT -----	⊗
TRAFFIC LIGHT STANDARD -----	⋈
TREE — PALM -----	
OTHER -----	⊙
VALVE -----	<div> <div>⊗ WV</div> <div> -WV -GV </div> <div> WATER VALVE GAS VALVE </div> </div>
WALLS — BLOCK, CONCRETE STUCCO, ETC. -----	=====

NOTE: Symbol sizes proportionate to drawings scale

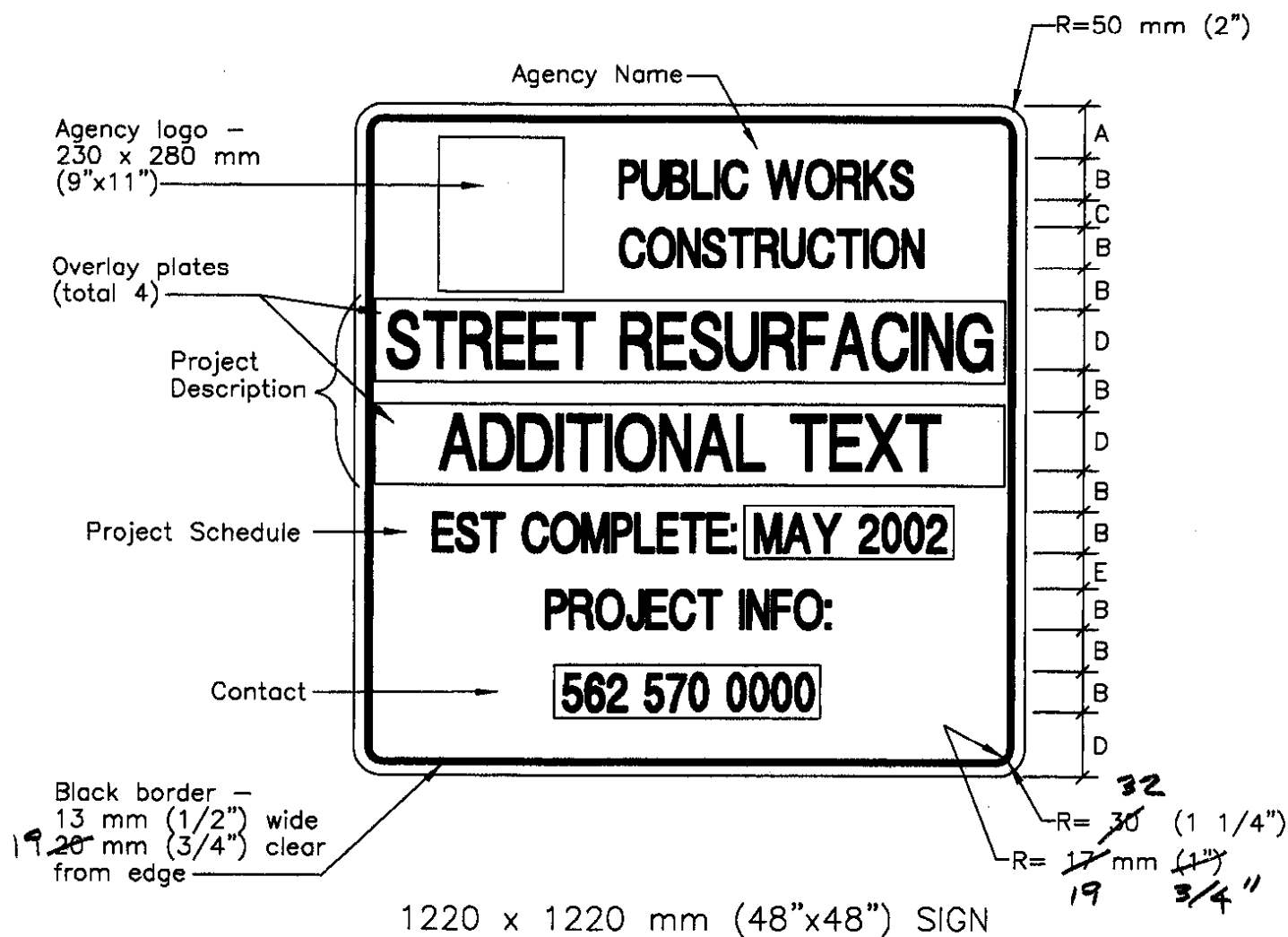
REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		STANDARD PLAN NO.
NO.	DATE			METRIC
1	12/23/02	STANDARD SYMBOLS		132
2				
3				
4				
APPROVED BY: <i>Ma J. [Signature]</i>		DATE: <i>1/10/03</i>	SHEET	
CITY ENGINEER R.E. No. 40599		EX. DATE: 03/31/03	1 OF 1	



\* Dimensions may vary depending on actual buses used on various bus routes. Verify dimensions with Long Beach Transit.

Dimensions are in millimeters, except as noted

<b>REVISIONS</b> NO. DATE		<b>CITY OF LONG BEACH, CALIFORNIA</b> DEPARTMENT OF PUBLIC WORKS		STANDARD PLAN NO.
1	12/04/95	<b>BUS STOP PARKWAY PAD</b>		<b>METRIC</b>  <b>133</b>
2	11/24/97			
3	12/23/02			
4				
APPROVED BY: <i>Mark Christoffel</i> CITY ENGINEER R.E. No. 90599		DATE: <i>1/10/03</i> EX. DATE: <i>03/31/03</i>		SHEET 1 OF 1

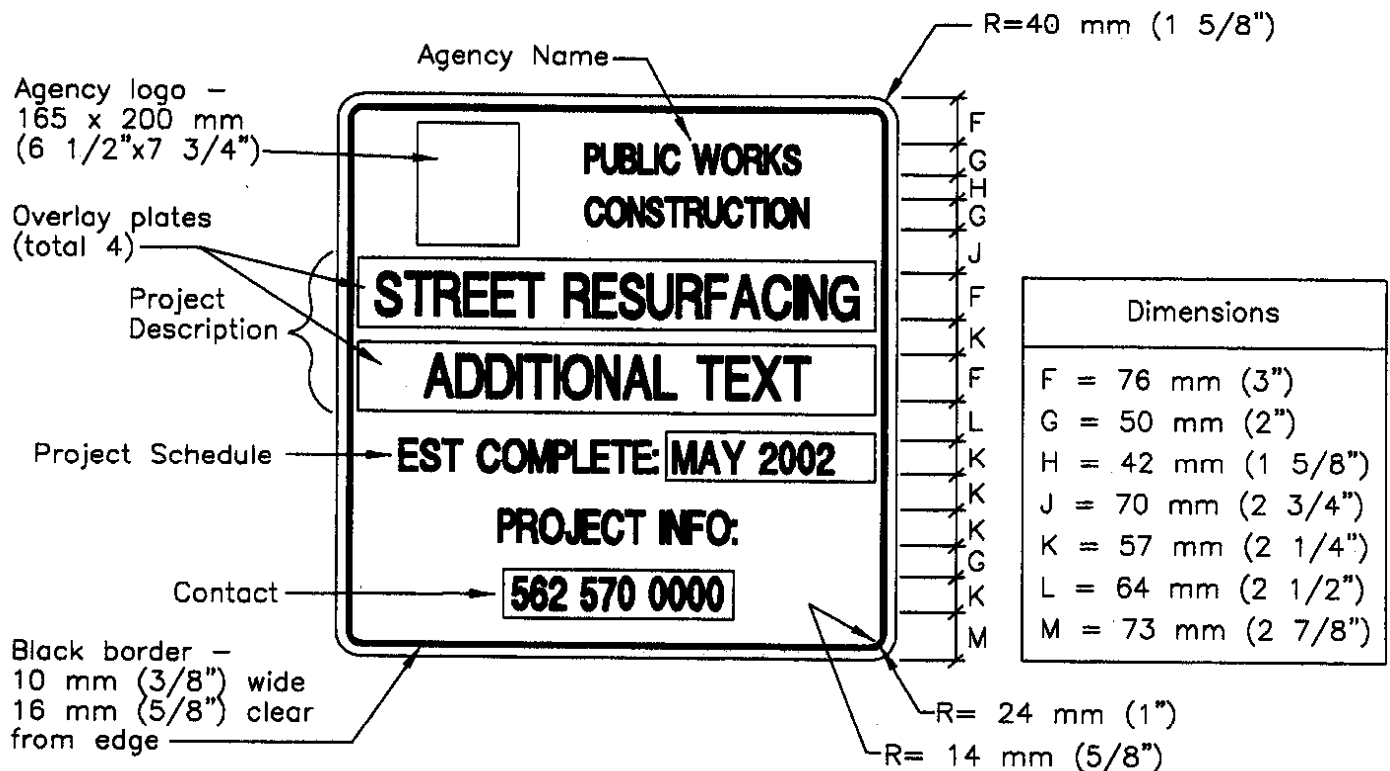


Dimensions
A = 95 mm (3 3/4")
B = 76 mm (3")
C = 50 mm (2")
D = 110 mm (4 1/4")
E = 60 mm (2 1/2")

See notes, sheet 2.

Dimensions are in millimeters, except as noted

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		METRIC 136
1	12/23/02	CONSTRUCTION INFORMATION SIGN	SHEET 1 OF 2
2			
3			
4			
APPROVED BY: <i>[Signature]</i>		DATE: 4/16/03	
CITY ENGINEER R.E. No. 40599		EX. DATE 03/31/07	



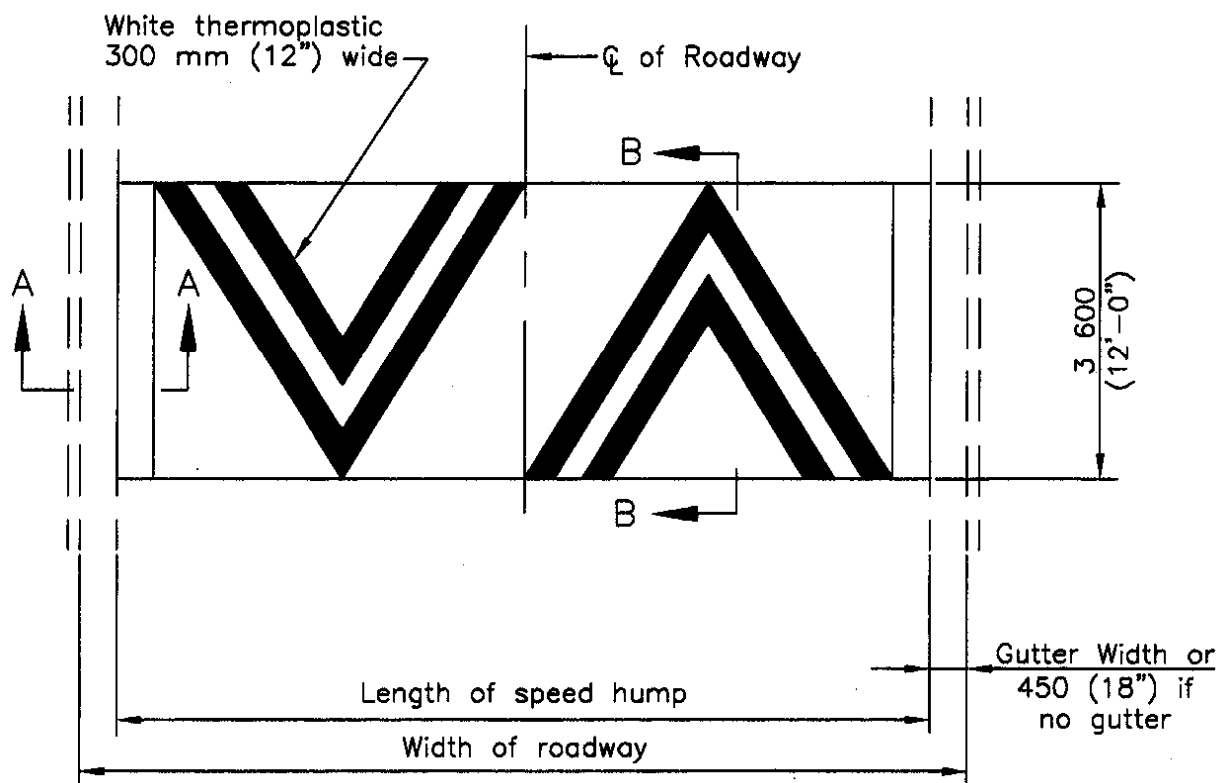
915 x 915 mm (36"x36") SIGN

#### Notes

1. Use 1220 x 1220 mm (48"x48") signs except where signs will interfere with pedestrian access. Otherwise, use 915 x 915 mm (36"x36") signs. Signs are required for all street, highway and utility projects lasting two weeks or more.
2. Signs shall be furnished by the Contractor or permittee. Post at least two signs per each work location; one sign at each end of street work, and one at each side street with a curb-to-curb width of 11 m (36') or greater.
3. Signs shall be aluminum, 1.6 mm (1/16") thick, engineering grade. Background shall be non-reflective white. Text shall be black.
4. For City projects, City will furnish City's logo in computerized format, if needed.
5. Overlay plate areas show job-specific text to be obtained from City or Agency before sign fabrication. Overlay plates shall be aluminum with coloring and text matching main sign. Overlay plates shall be mechanically attached.
6. Install signs on existing street light poles, if available. Otherwise, furnish new posts. Install signs per LB-317.
7. Post signs before beginning work. Remove signs after completing work, per City's approval, and deliver to City of Long Beach Traffic Paint and Sign Shop. The work will not be given final acceptance until the signs are delivered.

Dimensions are in millimeters, except as noted

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		
1	12/23/02	CONSTRUCTION INFORMATION SIGN	METRIC 136
2	02/28/03		
3			
4			
APPROVED BY: <i>[Signature]</i>		DATE: <i>4/6/03</i>	SHEET 2 OF 2
CITY ENGINEER R.E. No. 40599		EX. DATE: 03/31/07	

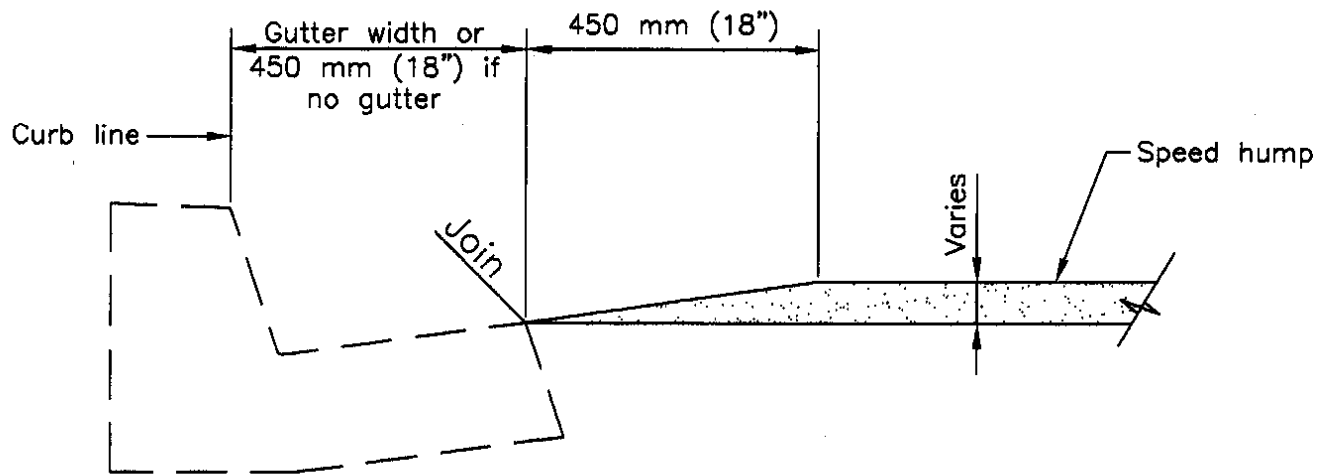


# NOTES

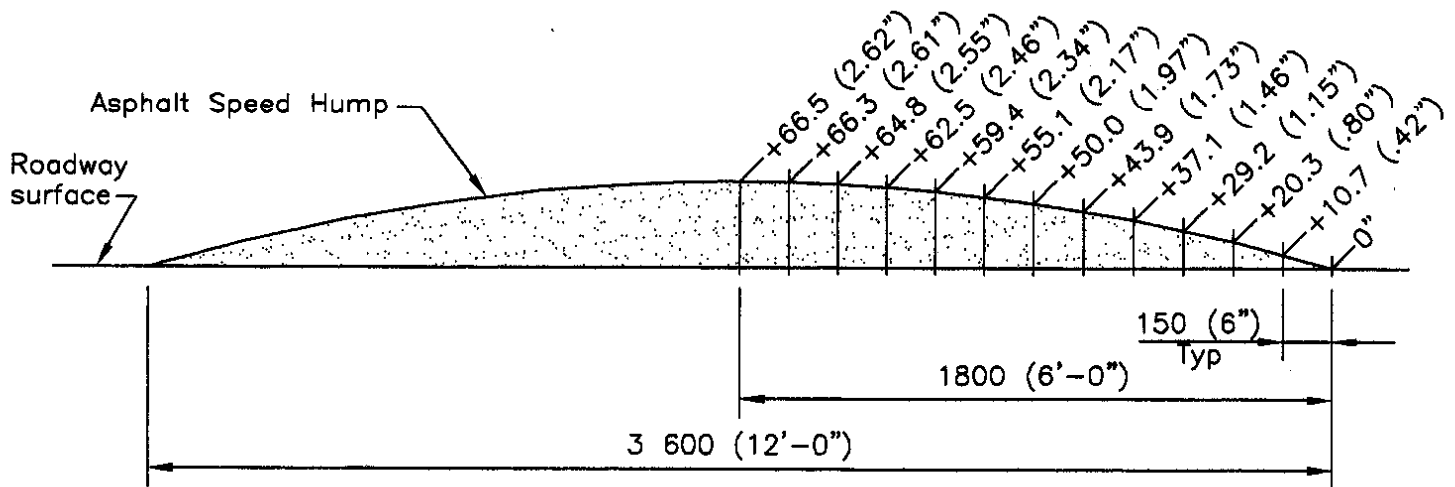
1. See project plans for placement of humps and warning signage.
2. Not to be installed within 60 m (200') of Stop controlled intersections and 90 m (300') of signalized intersections.
3. Not for roadways with center drainage swales.

Dimensions are in millimeters, except as noted

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		METRIC 137
1	02/28/03	SPEED HUMP	SHEET 1 OF 2
2			
3			
4			
APPROVED BY: <i>[Signature]</i>		DATE: <i>4/16/03</i>	
CITY ENGINEER R.F. No. 40599		EX. DATE 03/31/07	



SECTION A-A



SECTION B-B

Dimensions are in millimeters, except as noted

REVISIONS		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO.
NO.	DATE		
1	02/28/03	SPEED HUMP	METRIC 137
2			
3			
4			
APPROVED BY: <u>  </u>			